

# CPC COOPERATIVE PATENT CLASSIFICATION

## A HUMAN NECESSITIES

### HEALTH; AMUSEMENT

#### A61 MEDICAL OR VETERINARY SCIENCE; HYGIENE

**A61K** **PREPARATIONS FOR MEDICAL, DENTAL OR TOILETRY PURPOSES** (devices or methods specially adapted for bringing pharmaceutical products into particular physical or administering forms [A61J 3/00](#); chemical aspects of, or use of materials for deodorisation of air, for disinfection or sterilisation, or for bandages, dressings, absorbent pads or surgical articles [A61L](#); soap compositions [C11D](#))

#### NOTES

1. This subclass covers the following subject matter, whether set forth as a composition (mixture), process of preparing the composition or process of treating using the composition:
  - a. Drug or other biological compositions which are capable of:
    - preventing, alleviating, treating or curing abnormal or pathological conditions of the living body by such means as destroying a parasitic organism, or limiting the effect of the disease or abnormality by chemically altering the physiology of the host or parasite (biocides [A01N 25/00 - A01N 65/00](#));
    - maintaining, increasing, decreasing, limiting, or destroying a physiological body function, e.g. vitamin compositions, sex sterilants, fertility inhibitors, growth promoters, or the like (sex sterilants for invertebrates, e.g. insects, [A01N](#); plant growth regulators [A01N 25/00 - A01N 65/00](#));
    - diagnosing a physiological condition or state by an in vivo test, e.g. X-ray contrast or skin patch test compositions (measuring or testing processes involving enzymes or microorganisms [C12Q](#); in vitro testing of biological material, e.g. blood, urine, [G01N](#), e.g. [G01N 33/48](#))
  - b. Body treating compositions generally intended for deodorising, protecting, adorning or grooming the body, e.g. cosmetics, dentifrices, tooth filling materials.
2. Attention is drawn to the definitions of groups of chemical elements following the title of section [C](#).
3. Attention is drawn to the notes in class [C07](#), for example the notes following the title of the subclass [C07D](#), setting forth the rules for classifying organic compounds in that class, which rules are also applicable, if not otherwise indicated, to the classification of organic compounds in [A61K](#).
4. In this subclass, with the exception of group s [A61K 8/00](#) and [A61K 40/00](#), the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
5. Therapeutic activity of medicinal preparations is further classified in subclass [A61P](#).

#### WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

<a href="#">A61K 9/18</a>	covered by	<a href="#">A61K 9/14</a>
<a href="#">A61K 9/22</a>	covered by	<a href="#">A61K 9/20</a>
<a href="#">A61K 9/24</a>	covered by	<a href="#">A61K 9/209</a>
<a href="#">A61K 9/26</a>	covered by	<a href="#">A61K 9/2077, A61K 9/2081</a>
<a href="#">A61K 9/30</a>	covered by	<a href="#">A61K 9/28</a>
<a href="#">A61K 9/32</a>	covered by	<a href="#">A61K 9/28</a>
<a href="#">A61K 9/34</a>	covered by	<a href="#">A61K 9/28</a>
<a href="#">A61K 9/36</a>	covered by	<a href="#">A61K 9/28</a>
<a href="#">A61K 9/38</a>	covered by	<a href="#">A61K 9/28</a>
<a href="#">A61K 9/40</a>	covered by	<a href="#">A61K 9/28</a>
<a href="#">A61K 9/42</a>	covered by	<a href="#">A61K 9/28</a>
<a href="#">A61K 9/44</a>	covered by	<a href="#">A61K 9/2072</a>
<a href="#">A61K 9/46</a>	covered by	<a href="#">A61K 9/0007</a>
<a href="#">A61K 9/52</a>	covered by	<a href="#">A61K 9/50</a>
<a href="#">A61K 9/54</a>	covered by	<a href="#">A61K 9/5073, A61K 9/5078, A61K 9/5084</a>
<a href="#">A61K 9/56</a>	covered by	<a href="#">A61K 9/50</a>
<a href="#">A61K 9/58</a>	covered by	<a href="#">A61K 9/50</a>
<a href="#">A61K 9/60</a>	covered by	<a href="#">A61K 9/50</a>
<a href="#">A61K 9/62</a>	covered by	<a href="#">A61K 9/50</a>
<a href="#">A61K 9/64</a>	covered by	<a href="#">A61K 9/50</a>
<a href="#">A61K 9/66</a>	covered by	<a href="#">A61K 9/48</a>
<a href="#">A61K 9/68</a>	covered by	<a href="#">A61K 9/0058</a>

## A61K

A61K  
(continued)

<a href="#">A61K 9/72</a>	covered by	<a href="#">A61K 9/0073</a>
<a href="#">A61K 39/108</a>	covered by	<a href="#">A61K 39/0258, A61K 39/0266</a>
<a href="#">A61K 39/112</a>	covered by	<a href="#">A61K 39/0275, A61K 39/0283</a>
<a href="#">A61K 45/08</a>	covered by	<a href="#">A61K 31/00, A61K 47/00</a>
<a href="#">A61K 47/04</a>	covered by	<a href="#">A61K 47/02</a>
<a href="#">A61K 50/00</a>	covered by	<a href="#">A61K 9/0009, C09J 9/02</a>

The following IPC indexing codes are not in the CPC scheme:

<a href="#">A61K 101/00 - A61K 103/00</a>	covered by	<a href="#">A61K 51/00 - A61K 51/1296</a>
<a href="#">A61K 125/00 - A61K 135/00</a>	covered by	<a href="#">A61K 36/00 - A61K 36/9068</a>

2. Subgroups of [A61K 48/00](#) are incomplete (Jan. 2003). Documents are being reclassified from [A61K 48/00](#) to its subgroups
3. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

### 6/00 Preparations for dentistry

#### NOTE

In groups [A61K 6/00 - A61K 6/58](#) and [A61K 6/887 - A61K 6/90](#), combination sets [C-Sets] are used, e.g. compositions for taking dental impressions containing alginates are classified as ([A61K 6/90, C08L 5/04](#))

6/15	. Compositions characterised by their physical properties
6/16	. . Refractive index
6/17	. . Particle size
6/18	. . causing dental retraction, e.g. compositions for widening the sulcus for making dental impressions or removing teeth
6/19	. . Self-expanding, e.g. for filling teeth
6/20	. . Protective coatings for natural or artificial teeth, e.g. sealings, dye coatings or varnish
6/25	. . Compositions for detecting or measuring, e.g. of irregularities on natural or artificial teeth
6/30	. . Compositions for temporarily or permanently fixing teeth or palates, e.g. primers for dental adhesives
6/35	. . Preparations for stabilising dentures in the mouth
6/40	. . Primers ( <a href="#">for dental adhesives A61K 6/30</a> )
6/50	. . Preparations specially adapted for dental root treatment
6/52	. . Cleaning; Disinfecting
6/54	. . Filling; Sealing
6/56	. . Apical treatment
6/58	. . specially adapted for dental implants
6/60	. . comprising organic or organo-metallic additives
6/61	. . Cationic, anionic or redox initiators
6/62	. . Photochemical radical initiators
6/64	. . Thermal radical initiators
6/65	. . Dyes
6/66	. . . Photochromic dyes
6/68	. . . Thermochromic dyes
6/69	. . Medicaments
6/70	. . comprising inorganic additives
6/71	. . Fillers
6/72	. . . comprising nitrogen-containing compounds
6/73	. . . comprising sulfur-containing compounds
6/74	. . . comprising phosphorus-containing compounds
6/75	. . . . Apatite
6/76	. . . comprising silicon-containing compounds
6/77	. . . Glass
6/78	. . . Pigments
6/79	. . . Initiators

6/80	. . Preparations for artificial teeth, for filling teeth or for capping teeth
6/802	. . . comprising ceramics
6/804	. . . . comprising manganese oxide
6/807	. . . . comprising magnesium oxide
6/809	. . . . comprising beryllium oxide
6/811	. . . . comprising chromium oxide
6/813	. . . . comprising iron oxide
6/816	. . . . comprising titanium oxide
6/818	. . . . comprising zirconium oxide
6/82	. . . . comprising hafnium oxide
6/822	. . . . comprising rare earth metal oxides
6/824	. . . . comprising transition metal oxides
6/827	. . . . Leucite
6/829	. . . . comprising cermet composites
6/831	. . . . comprising non-metallic elements or compounds thereof, e.g. carbon
6/833	. . . . Glass-ceramic composites
6/836	. . . . Glass
6/838	. . . . Phosphorus compounds, e.g. apatite
6/84	. . . . comprising metals or alloys
6/842	. . . . Rare earth metals
6/844	. . . . Noble metals
6/847	. . . . Amalgams
6/849	. . . . comprising inorganic cements
6/851	. . . . Portland cements
6/853	. . . . Silicates
6/856	. . . . Pozzolans
6/858	. . . . Calcium sulfates, e.g. gypsum
6/86	. . . . Al-cements
6/862	. . . . Ca-Al-sulfate-cements
6/864	. . . . Phosphate cements ( <a href="#">apatite A61K 6/838</a> )
6/867	. . . . Ammonium cements
6/869	. . . . Zeolites
6/871	. . . . Quartz; SiO <sub>2</sub>
6/873	. . . . Carbonates
6/876	. . . . Calcium oxide
6/878	. . . . Zirconium oxide
6/88	. . . . Chromium oxide
6/882	. . . . Carbides
6/884	. . . . comprising natural or synthetic resins
6/887	. . . . Compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
6/889	. . . . Polycarboxylate cements; Glass ionomer cements
6/891	. . . . Compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds

6/893	. . . . Polyurethanes	8/03	. . Liquid compositions with two or more distinct layers
6/896	. . . . Polyorganosilicon compounds	8/04	. . Dispersions; Emulsions
6/898	. . . Polysaccharides	8/042	. . . {Gels}
6/90	. Compositions for taking dental impressions	8/044	. . . {Suspensions}
<b>8/00</b>	<b>Cosmetics or similar toiletry preparations</b>	8/046	. . . {Aerosols; Foams}
	<b>NOTES</b>	8/06	. . . Emulsions
	1. Use of cosmetics or similar toiletry preparations is further classified in subclass <a href="#">A61Q</a> .	8/062	. . . . {Oil-in-water emulsions}
	2. {Use of cosmetics or similar toiletry preparations is mandatorily further classified in subclass <a href="#">A61Q</a> .}	8/064	. . . . {Water-in-oil emulsions, e.g. Water-in-silicone emulsions}
	3. {Attention is drawn to the Notes in class <a href="#">C07</a> , for example the notes following the title of subclass <a href="#">C07D</a> , setting forth the rules for classifying organic compounds in that class, which rules are also applicable, if not otherwise indicated, to the classification of organic compounds in group <a href="#">A61K 8/00.</a> }	8/066	. . . . {Multiple emulsions, e.g. water-in-oil-in-water}
	4. {Salts or complexes of organic compounds are classified according to the base compounds. If a complex is formed between two or more compounds, classification is made for each compound.}	8/068	. . . . {Microemulsions}
8/02	. characterised by special physical form	8/11	. . Encapsulated compositions
	<b>NOTE</b>	8/14	. . Liposomes; Vesicles
	In this group, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.	8/18	. characterised by the composition
			<b>NOTE</b>
			In this group, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
8/0204	. . {Specific forms not provided for by any of groups <a href="#">A61K 8/0208 - A61K 8/14</a> }	8/19	. . containing inorganic ingredients
8/0208	. . {Tissues; Wipes; Patches}	8/20	. . . Halogens; Compounds thereof
8/0212	. . {Face masks}	8/21	. . . . Fluorides; Derivatives thereof
8/0216	. . {Solid or semisolid forms}	8/22	. . . . Peroxides; Oxygen; Ozone
8/022	. . . {Powders; Compacted Powders}	8/23	. . . . Sulfur; Selenium; Tellurium; Compounds thereof
8/0225	. . . . {Granulated powders}	8/24	. . . . Phosphorous; Compounds thereof
8/0229	. . . {Sticks}	8/25	. . . . Silicon; Compounds thereof
8/0233	. . . . {Distinct layers, e.g. core/shell sticks}	8/26	. . . . Aluminium; Compounds thereof
8/0237	. . . . {Striped compositions}	8/27	. . . . Zinc; Compounds thereof
8/0241	. . {Containing particulates characterized by their shape and/or structure ( <a href="#">see also A61K 8/04, A61K 8/11, and A61K 8/14</a> , further aspects are classified in <a href="#">A61K 2800/40</a> and subcodes)}	8/28	. . . . Zirconium; Compounds thereof
8/0245	. . . . {Specific shapes or structures not provided for by any of the groups of <a href="#">A61K 8/0241</a> }	8/29	. . . . Titanium; Compounds thereof
8/025	. . . . {Explicitly spheroidal or spherical shape}	8/30	. . . containing organic compounds
8/0254	. . . . {Platelets; Flakes}	8/31	. . . . Hydrocarbons
8/0258	. . . . . {Layered structure}	8/315	. . . . . {Halogenated hydrocarbons}
8/0262	. . . . . {Characterized by the central layer}	8/33	. . . . containing oxygen
8/0266	. . . . . {Characterized by the sequence of layers}	8/34	. . . . . Alcohols
8/027	. . . . {Fibers; Fibrils}	8/342	. . . . . . {Alcohols having more than seven atoms in an unbroken chain}
8/0275	. . . . {Containing agglomerated particulates}	8/345	. . . . . . {containing more than one hydroxy group}
8/0279	. . . . {Porous; Hollow}	8/347	. . . . . . {Phenols}
8/0283	. . . . {Matrix particles}	8/35	. . . . . Ketones, e.g. benzophenone
8/0287	. . . . . {the particulate containing a solid-in-solid dispersion}	8/355	. . . . . {Quinones}
8/0291	. . . {Micelles}	8/36	. . . . . Carboxylic acids; Salts or anhydrides thereof
8/0295	. . . {Liquid crystals}	8/361	. . . . . . {Carboxylic acids having more than seven carbon atoms in an unbroken chain; Salts or anhydrides thereof}
		8/362	. . . . . Polycarboxylic acids
		8/365	. . . . . Hydroxycarboxylic acids; Ketocarboxylic acids
		8/368	. . . . . with carboxyl groups directly bound to carbon atoms of aromatic rings
		8/37	. . . . . Esters of carboxylic acids
		8/375	. . . . . . {the alcohol moiety containing more than one hydroxy group}
		8/38	. . . . . Percompounds, e.g. peracids
		8/39	. . . . . Derivatives containing from 2 to 10 oxyalkylene groups

8/40	. . . containing nitrogen ( <a href="#">quinones containing nitrogen A61K 8/355</a> )	8/606	. . . . {Nucleosides; Nucleotides; Nucleic acids}
8/41	. . . . Amines	8/608	. . . . {Derivatives containing from 2 to 10 oxyalkylene groups}
8/411	. . . . . {Aromatic amines, i.e. where the amino group is directly linked to the aromatic nucleus}	8/63	. . . . Steroids; Derivatives thereof
8/413	. . . . . {Indoanilines; Indophenol; Indoamines}		<b>NOTE</b>
8/415	. . . . . {Aminophenols}		This group <u>covers</u> steroids, as defined in Note (1) after the title of subclass <a href="#">C07J</a> .
8/416	. . . . . {Quaternary ammonium compounds ( <a href="#">A61K 8/35 takes precedence</a> )}	8/64	. . . Proteins; Peptides; Derivatives or degradation products thereof
8/418	. . . . . {containing nitro groups}	8/645	. . . . {Proteins of vegetable origin; Derivatives or degradation products thereof}
8/42	. . . . Amides	8/65	. . . . Collagen; Gelatin; Keratin; Derivatives or degradation products thereof
8/43	. . . . Guanidines	8/66	. . . . Enzymes
8/44	. . . . . Aminocarboxylic acids or derivatives thereof, e.g. aminocarboxylic acids containing sulfur; Salts; Esters or N-acylated derivatives thereof	8/67	. . . . Vitamins
8/442	. . . . . {substituted by amido group(s)}	8/671	. . . . . {Vitamin A; Derivatives thereof, e.g. ester of vitamin A acid, ester of retinol, retinol, retinal}
8/445	. . . . . {aromatic, i.e. the carboxylic acid directly linked to the aromatic ring}	8/673	. . . . . {Vitamin B group}
8/447	. . . . . {containing sulfur}	8/675	. . . . . {Vitamin B3 or vitamin B3 active, e.g. nicotinamide, nicotinic acid, nicotinyl aldehyde ( <a href="#">tocopheryl nicotinate A61K 8/678</a> )}
8/45	. . . . . Derivatives containing from 2 to 10 oxyalkylene groups	8/676	. . . . . {Ascorbic acid, i.e. vitamin C}
8/46	. . . containing sulfur ( <a href="#">A61K 8/44 takes precedence</a> )	8/678	. . . . . {Tocopherol, i.e. vitamin E}
8/463	. . . . . {containing sulfuric acid derivatives, e.g. sodium lauryl sulfate}	8/68	. . . . Sphingolipids, e.g. ceramides, cerebrosides, gangliosides
8/466	. . . . . {containing sulfonic acid derivatives; Salts}	8/69	. . . . containing fluorine
8/49	. . . . . containing heterocyclic compounds	8/70	. . . . . containing perfluoro groups, e.g. perfluoroethers
8/4906	. . . . . {with one nitrogen as the only hetero atom}	8/72	. . . containing organic macromolecular compounds
8/4913	. . . . . {having five membered rings, e.g. pyrrolidone carboxylic acid}	8/73	. . . Polysaccharides
8/492	. . . . . {having condensed rings, e.g. indol}	8/731	. . . . . {Cellulose; Quaternized cellulose derivatives}
8/4926	. . . . . {having six membered rings}	8/732	. . . . . {Starch; Amylose; Amylopectin; Derivatives thereof}
8/4933	. . . . . {having sulfur as an exocyclic substituent, e.g. pyridinethione}	8/733	. . . . . {Alginic acid; Salts thereof}
8/494	. . . . . {with more than one nitrogen as the only hetero atom}	8/735	. . . . . {Mucopolysaccharides, e.g. hyaluronic acid; Derivatives thereof}
8/4946	. . . . . {Imidazoles or their condensed derivatives, e.g. benzimidazoles}	8/736	. . . . . {Chitin; Chitosan; Derivatives thereof}
8/4953	. . . . . {containing pyrimidine ring derivatives, e.g. minoxidil}	8/737	. . . . . {Galactomannans, e.g. guar; Derivatives thereof}
8/496	. . . . . {Triazoles or their condensed derivatives, e.g. benzotriazoles}	8/738	. . . . . {Cyclodextrins}
8/4966	. . . . . {Triazines or their condensed derivatives}	8/81	. . . obtained by reactions involving only carbon-to-carbon unsaturated bonds
8/4973	. . . . . {with oxygen as the only hetero atom}	8/8105	. . . . . {Compositions of homopolymers or copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond; Compositions of derivatives of such polymers}
8/498	. . . . . {having 6-membered rings or their condensed derivatives, e.g. coumarin}	8/8111	. . . . . {Homopolymers or copolymers of aliphatic olefines, e.g. polyethylene, polyisobutene; Compositions of derivatives of such polymers}
8/4986	. . . . . {with sulfur as the only hetero atom}	8/8117	. . . . . {Homopolymers or copolymers of aromatic olefines, e.g. polystyrene; Compositions of derivatives of such polymers}
8/4993	. . . . . {Derivatives containing from 2 to 10 oxyalkylene groups}		
8/55	. . . Phosphorus compounds		
8/553	. . . . {Phospholipids, e.g. lecithin}		
8/556	. . . . . {Derivatives containing from 2 to 10 oxyalkylene groups}		
8/58	. . . containing atoms other than carbon, hydrogen, halogen, oxygen, nitrogen, sulfur or phosphorus		
8/585	. . . . . {Organosilicon compounds}		
8/60	. . . Sugars; Derivatives thereof		
8/602	. . . . . {Glycosides, e.g. rutin}		
8/604	. . . . . {Alkylpolyglycosides; Derivatives thereof, e.g. esters}		

8/8123	..... {Compositions of homopolymers or copolymers of compounds having one carbon-to-carbon double bond, and at least one being terminated by a halogen; Compositions of derivatives of such polymers, e.g. PVC, PTFE}	8/817	..... {Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a single or double bond to nitrogen or by a heterocyclic ring containing nitrogen; Compositions or derivatives of such polymers, e.g. vinylimidazol, vinylcaprolactame, allylamines (Polyquaternium 6)}
8/8129	..... {Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an alcohol, ether, aldehydo, ketonic, acetal or ketal radical; Compositions of hydrolysed polymers or esters of unsaturated alcohols with saturated carboxylic acids; Compositions of derivatives of such polymers, e.g. polyvinylmethylether}	8/8176	..... {Homopolymers of N-vinyl-pyrrolidones. Compositions of derivatives of such polymers}
8/8135	..... {Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, of carbonic acid or of a haloformic acid; Compositions of derivatives of such polymers, e.g. vinyl esters (polyvinylacetate)}	8/8182	..... {Copolymers of vinyl-pyrrolidones. Compositions of derivatives of such polymers}
8/8141	..... {Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by only one carboxyl radical, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Compositions of derivatives of such polymers}	8/8188	..... {Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bonds, and at least one being terminated by a bond to sulfur or by a heterocyclic ring containing sulfur; Compositions of derivatives of such polymers}
8/8147	..... {Homopolymers or copolymers of acids; Metal or ammonium salts thereof, e.g. crotonic acid, (meth)acrylic acid; Compositions of derivatives of such polymers}	8/8194	..... {Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, at least one having two or more carbon-to-carbon double bonds; Compositions of derivatives of such polymers}
8/8152	..... {Homopolymers or copolymers of esters, e.g. (meth)acrylic acid esters; Compositions of derivatives of such polymers}	8/84	.... obtained by reactions otherwise than those involving only carbon-carbon unsaturated bonds
8/8158	..... {Homopolymers or copolymers of amides or imides, e.g. (meth) acrylamide; Compositions of derivatives of such polymers}	8/85	.... Polyesters
8/8164	..... {Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical, and containing at least one other carboxyl radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Compositions of derivatives of such polymers, e.g. poly (methyl vinyl ether-co-maleic anhydride)}	8/86	.... Polyethers
		8/87	.... Polyurethanes
		8/88	.... Polyamides
		8/89	.... Polysiloxanes
		8/891	.... saturated, e.g. dimethicone, phenyl trimethicone, C24-C28 methicone or stearyl dimethicone
		8/892	.... modified by a hydroxy group, e.g. dimethiconol
		8/893	.... modified by an alkoxy or aryloxy group, e.g. behenoxy dimethicone or stearoxy dimethicone
		8/894	.... modified by a polyoxyalkylene group, e.g. cetyl dimethicone copolyol
		8/895	.... containing silicon bound to unsaturated aliphatic groups, e.g. vinyl dimethicone
		8/896	.... containing atoms other than silicon, carbon, oxygen and hydrogen, e.g. dimethicone copolyol phosphate
		8/897	.... containing halogen, e.g. fluorosilicones
		8/898	.... containing nitrogen, e.g. amodimethicone, trimethyl silyl amodimethicone or dimethicone propyl PG-betaine
		8/899	.... containing sulfur, e.g. sodium PG-propyldimethicone thiosulfate copolyol
		8/90	.... Block copolymers ( <a href="#">A61K 8/89 takes precedence</a> )
		8/91	.... Graft copolymers ( <a href="#">A61K 8/89 takes precedence</a> )

8/92	. . Oils, fats or waxes; Derivatives thereof, e.g. hydrogenation products thereof	Where relevant, documents are classified in more than one of these subdivisions.
8/922	. . . {of vegetable origin}	
8/925	. . . {of animal origin}	
8/927	. . . {of insects, e.g. shellac}	
8/96	. . containing materials, or derivatives thereof of undetermined constitution	
8/965	. . . {of inanimate origin}	
8/97	. . . from algae, fungi, lichens or plants; from derivatives thereof	
8/9706	. . . . Algae	
8/9711	. . . . . Phaeophycota or Phaeophyta [brown algae], e.g. Fucus	
8/9717	. . . . . Rhodophycota or Rhodophyta [red algae], e.g. Porphyra	
8/9722	. . . . . Chlorophycota or Chlorophyta [green algae], e.g. Chlorella	
8/9728	. . . . . Fungi, e.g. yeasts	
8/9733	. . . . . Lichens	
8/9739	. . . . . Bryophyta [mosses]	
8/9741	. . . . . Pteridophyta [ferns]	
8/9749	. . . . . Filicopsida or Pteridopsida	
8/9755	. . . . . Gymnosperms [Coniferophyta]	
8/9761	. . . . . Cupressaceae [Cypress family], e.g. juniper or cypress	
8/9767	. . . . . Pinaceae [Pine family], e.g. pine or cedar	
8/9771	. . . . . Ginkgophyta, e.g. Ginkgoaceae [Ginkgo family]	
8/9778	. . . . . Gnetophyta, e.g. Ephedraceae [Mormon-tea family]	
8/9783	. . . . . Angiosperms [Magnoliophyta]	
8/9789	. . . . . Magnoliopsida [dicotyledons]	
8/9794	. . . . . Liliopsida [monocotyledons]	
8/98	. . . of animal origin	
8/981	. . . . . {of mammals or bird}	
8/982	. . . . . {Reproductive organs; Embryos, Eggs}	
8/983	. . . . . {Blood, e.g. plasma}	
8/985	. . . . . {Skin or skin outgrowth, e.g. hair, nails}	
8/986	. . . . . {Milk; Derivatives thereof, e.g. butter}	
8/987	. . . . . {of species other than mammals or birds}	
8/988	. . . . . {Honey; Royal jelly, Propolis}	
8/99	. . . from microorganisms other than algae or fungi, e.g. protozoa or bacteria	
9/00	<b>Medicinal preparations characterised by special physical form {<a href="#">(nuclear magnetic resonance contrast preparations or magnetic resonance imaging contrast preparations A61K 49/18; preparations containing radioactive substances A61K 51/12)</a>}</b>	
	<b>NOTE</b>	
	Among the one-dot groups of <a href="#">A61K 9/00</a> , classification is not made in the last appropriate place.	
	<a href="#">A61K 9/00</a> is subdivided according to the following concepts:	
	<ul style="list-style-type: none"> <li>• the drug release technique (<a href="#">A61K 9/0002</a> and subgroups),</li> <li>• the site of application (<a href="#">A61K 9/0012</a> and subgroups), and</li> <li>• the physical form (<a href="#">A61K 9/0087 - A61K 9/7023</a> ).</li> </ul>	
9/0002	. {Galenical forms characterised by the drug release technique; Application systems commanded by energy}	
9/0004	. . {Osmotic delivery systems; Sustained release driven by osmosis, thermal energy or gas}	
9/0007	. . {Effervescent ( <a href="#">A61K 9/0065</a> takes precedence)}	
9/0009	. . {involving or responsive to electricity, magnetism or acoustic waves; Galenical aspects of sonophoresis, iontophoresis, electroporation or electroosmosis ( <a href="#">microelectromechanical systems A61K 9/0097</a> )}	
9/0012	. {Galenical forms characterised by the site of application}	
9/0014	. . {Skin, i.e. galenical aspects of topical compositions ( <a href="#">non-active ingredients</a> are additionally classified in <a href="#">A61K 47/00; A61K 9/0009, A61K 9/0021, A61K 9/7015, A61K 9/7023</a> take precedence; cosmetic preparations <a href="#">A61K 8/00, A61Q</a> ; preparations for wound dressings or bandages <a href="#">A61L 26/00</a> )}	
9/0017	. . . {Non-human animal skin, e.g. pour-on, spot-on}	
9/0019	. . . {Injectable compositions; Intramuscular, intravenous, arterial, subcutaneous administration; Compositions to be administered through the skin in an invasive manner ( <a href="#">non-active ingredients</a> are additionally classified in <a href="#">A61K 47/00</a> )}	
9/0021	. . . {Intradermal administration, e.g. through microneedle arrays, needleless injectors ( <a href="#">mechanical aspects A61M</a> )}	
9/0024	. . . {Solid, semi-solid or solidifying implants, which are implanted or injected in body tissue ( <a href="#">compositions for intravenous administration, normal injectable solutions or dispersions for, e.g. subcutaneous administration A61K 9/0019; brain implants A61K 9/0085; (coated) prostheses, catheters or stents A61L</a> )}	
9/0026	. . . {Blood substitute; Oxygen transporting formulations; Plasma extender}	
9/0029	. . . {Parenteral nutrition; Parenteral nutrition compositions as drug carriers}	
9/0031	. . . {Rectum, anus}	
9/0034	. . . {Urogenital system, e.g. vagina, uterus, cervix, penis, scrotum, urethra, bladder; Personal lubricants}	
9/0036	. . . {Devices retained in the vagina or cervix for a prolonged period, e.g. intravaginal rings, medicated tampons, medicated diaphragms}	
9/0039	. . . {Devices retained in the uterus for a prolonged period, e.g. intrauterine devices for contraception}	
9/0041	. . . {Mammary glands, e.g. breasts, udder; Intramammary administration}	
9/0043	. . . {Nose}	
9/0046	. . . {Ear}	
9/0048	. . . {Eye, e.g. artificial tears}	
9/0051	. . . {Ocular inserts, ocular implants}	
9/0053	. . . {Mouth and digestive tract, i.e. intraoral and peroral administration ( <a href="#">rectal administration A61K 9/0031</a> )}	

9/0056	. . . {Mouth soluble or dispersible forms; Suckable, eatable, chewable coherent forms; Forms rapidly disintegrating in the mouth; Lozenges; Lollipops; Bite capsules; Baked products; Baits or other oral forms for animals}	9/025	. . . {characterised by shape or structure, e.g. hollow layered, coated}
9/0058	. . . {Chewing gums (non-medicinal aspects, preparing chewing gum A23G 4/00; chewing gum for care of the teeth or oral cavity, e.g. with breath freshener A61Q 11/00)}	9/06	. Ointments; Bases therefor; {Other semi-solid forms, e.g. creams, sticks, gels (composition of ointments, creams or gels A61K 47/00)}
9/006	. . . {Oral mucosa, e.g. mucoadhesive forms, sublingual droplets; Buccal patches or films; Buccal sprays}	9/08	. Solutions {(composition of solutions A61K 47/00)}
9/0063	. . . {Periodont}	9/10	. Dispersions; Emulsions {(A61K 9/06 takes precedence; composition of dispersions, emulsions A61K 47/00)}
9/0065	. . . {Forms with gastric retention, e.g. floating on gastric juice, adhering to gastric mucosa, expanding to prevent passage through the pylorus}	9/107	. . . Emulsions {; Emulsion preconcentrates; Micelles (composition of emulsions A61K 47/00)}
9/0068	. . . {Rumen, e.g. rumen bolus}	9/1075	. . . {Microemulsions or submicron emulsions; Preconcentrates or solids thereof; Micelles, e.g. made of phospholipids or block copolymers (A61K 9/0026 takes precedence)}
9/007	. . . {Pulmonary tract; Aromatherapy}	9/113	. . . Multiple emulsions, e.g. oil-in-water-in-oil {(A61K 9/0026 takes precedence)}
9/0073	. . . {Sprays or powders for inhalation; Aerolised or nebulised preparations generated by other means than thermal energy; (nasal sprays A61K 9/0043; inhalation of vapours of volatile or heated drugs, e.g. essential oils or nicotine, A61K 9/007; devices A61M)}	9/12	. . . Aerosols; Foams { (A61K 9/0043, A61K 9/0056, A61K 9/006, A61K 9/0073 take precedence; spray-films A61K 9/7015)}
9/0075	. . . . {for inhalation via a dry powder inhaler [DPI], e.g. comprising micronized drug mixed with lactose carrier particles}	9/122	. . . {Foams; Dry foams (edible foams A61K 9/0056)}
9/0078	. . . . {for inhalation via a nebulizer such as a jet nebulizer, ultrasonic nebulizer, e.g. in the form of aqueous drug solutions or dispersions}	9/124	. . . {characterised by the propellant}
9/008	. . . . {comprising drug dissolved or suspended in liquid propellant for inhalation via a pressurized metered dose inhaler [MDI]}	9/127	. . . Synthetic bilayered vehicles, e.g. liposomes or liposomes with cholesterol as the only non-phosphatidyl surfactant
9/0082	. . . {Lung surfactant, artificial mucus}	9/1271	. . . Non-conventional liposomes, e.g. PEGylated liposomes or liposomes coated or grafted with polymers (liposomes as conjugates A61K 47/6911)
9/0085	. . . {Brain, e.g. brain implants; Spinal cord}	9/1272	. . . comprising non-phosphatidyl surfactants as bilayer-forming substances, e.g. cationic lipids or non-phosphatidyl liposomes coated or grafted with polymers (lipids as modifying agents A61K 47/543)
9/0087	. . . {Galenical forms not covered by A61K 9/02 - A61K 9/7023}	9/1273	. . . Polymersomes; Liposomes with polymerisable or polymerised bilayer-forming substances
9/009	. . . {Sachets, pouches characterised by the material or function of the envelope (with gastric retention A61K 9/0065; sachets which are not administered but function merely as a container are classified according to the content, e.g. sachets comprising powder for reconstitution of a drink A61K 9/0095)}	9/1274	. . . Non-vesicle bilayer structures, e.g. liquid crystals, tubules, cubic phases or cochleates; Sponge phases
9/0092	. . . {Hollow drug-filled fibres, tubes of the core-shell type, coated fibres, coated rods, microtubules or nanotubes}	9/1275	. . . Lipoproteins or protein-free species thereof, e.g. chylomicrons; Artificial high-density lipoproteins [HDL], low-density lipoproteins [LDL] or very-low-density lipoproteins [VLDL]; Precursors thereof
9/0095	. . . {Drinks; Beverages; Syrups; Compositions for reconstitution thereof, e.g. powders or tablets to be dispersed in a glass of water; Veterinary drenches (A61K 9/0007 takes precedence; eatable gels or foams A61K 9/0056; oral mucosa adhesive forms A61K 9/006)}	9/1276	. . . Globules of milk; Constituents thereof
9/0097	. . . {Micromachined devices; Microelectromechanical systems [MEMS]; Devices obtained by lithographic treatment of silicon; Devices comprising chips (intradermal microneedle arrays A61K 9/0021; MEMS in general B81B 7/02)}	9/1277	. . . Preparation processes; Proliposomes
9/02	. Suppositories; Bougies; Bases therefor; {Ovules} (apparatus for making A61J 3/08; devices for introducing into the body A61M 31/00)	9/1278	. . . Post-loading, e.g. by ion or pH gradient
		9/14	. Particulate form, e.g. powders, {Processes for size reducing of pure drugs or the resulting products, Pure drug nanoparticles (microspheres A61K 9/16; microcapsules A61K 9/50; nanocapsules, nanoparticles of the matrix type A61K 9/51)}
		9/141	. . . {Intimate drug-carrier mixtures characterised by the carrier, e.g. ordered mixtures, adsorbates, solid solutions, eutectica, co-dried, co-solubilised, co-kneaded, co-milled, co-ground products, co-precipitates, co-evaporates, co-extrudates, co-melts; Drug nanoparticles with adsorbed surface modifiers ((co) spray-dried products A61K 9/16, (co) lyophilised products A61K 9/19; the carrier being chemically bound to the active ingredient A61K 47/50)}
		9/143	. . . {with inorganic compounds}

9/145	. . . {with organic compounds}	9/20	. Pills, tablets, {discs, rods ( <a href="#">A61K 9/0004</a> , <a href="#">A61K 9/0007</a> , <a href="#">A61K 9/0056</a> , <a href="#">A61K 9/0065</a> take precedence; for reconstitution of a drink <a href="#">A61K 9/0095</a> )}
9/146	. . . {with organic macromolecular compounds}	9/2004	. . . {Excipients; Inactive ingredients}
9/148	. . . {with compounds of unknown constitution, e.g. material from plants or animals (with oils, fats, waxes, shellac <a href="#">A61K 9/145</a> )}	9/2009	. . . {Inorganic compounds}
9/16	. . Agglomerates; Granulates; Microbeadlets {; Microspheres; Pellets; Solid products obtained by spray drying, spray freeze drying, spray congealing,(multiple) emulsion solvent evaporation or extraction ( <a href="#">A61K 9/20</a> takes precedence if the final form is a tablet; microspheres with drug-free outer coating, microcapsules <a href="#">A61K 9/50</a> ; mixture of different granules, microcapsules, (coated) microparticles <a href="#">A61K 9/5084</a> ; nanoparticles <a href="#">A61K 9/51</a> )}	9/2013	. . . {Organic compounds, e.g. phospholipids, fats}
9/1605	. . . {Excipients; Inactive ingredients}	9/2018	. . . {Sugars, or sugar alcohols, e.g. lactose, mannitol; Derivatives thereof, e.g. polysorbates}
9/1611	. . . . {Inorganic compounds}	9/2022	. . . {Organic macromolecular compounds}
9/1617	. . . . {Organic compounds, e.g. phospholipids, fats}	9/2027	. . . . {obtained by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polyvinyl pyrrolidone, poly(meth)acrylates}
9/1623	. . . . . {Sugars or sugar alcohols, e.g. lactose; Derivatives thereof; Homeopathic globules}	9/2031	. . . . {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polyethylene glycol, polyethylene oxide, poloxamers}
9/1629	. . . . {Organic macromolecular compounds}	9/2036	. . . . . {Silicones; Polysiloxanes}
9/1635	. . . . . {obtained by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polyvinyl pyrrolidone, poly(meth)acrylates}	9/204	. . . . . {Polyesters, e.g. poly(lactide-co-glycolide)}
9/1641	. . . . . {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polyethylene glycol, poloxamers}	9/2045	. . . . . {Polyamides; Polyaminoacids, e.g. polylysine}
9/1647	. . . . . {Polyesters, e.g. poly(lactide-co-glycolide)}	9/205	. . . . . {Polysaccharides, e.g. alginate, gums; Cyclodextrin}
9/1652	. . . . . {Polysaccharides, e.g. alginate, cellulose derivatives; Cyclodextrin ( <a href="#">homeopathic globules A61K 9/1623</a> )}	9/2054	. . . . . {Cellulose; Cellulose derivatives, e.g. hydroxypropyl methylcellulose}
9/1658	. . . . . {Proteins, e.g. albumin, gelatin}	9/2059	. . . . . {Starch, including chemically or physically modified derivatives; Amylose; Amylopectin; Dextrin}
9/1664	. . . . . {Compounds of unknown constitution, e.g. material from plants or animals (oils, fats, waxes, shellac <a href="#">A61K 9/1617</a> )}	9/2063	. . . . . {Proteins, e.g. gelatin}
9/167	. . . {with an outer layer or coating comprising drug; with chemically bound drugs or non-active substances on their surface ( <a href="#">with further drug-free outer coating A61K 9/5073</a> )}	9/2068	. . . . . {Compounds of unknown constitution, e.g. material from plants or animals (oils, fats, waxes, shellac <a href="#">A61K 9/2013</a> )}
9/1676	. . . . . {having a drug-free core with discrete complete coating layer containing drug (adsorbates of liquid drug formulations on inert powders without simultaneous granulation step <a href="#">A61K 9/141</a> ; with further drug-free outer coating <a href="#">A61K 9/5078</a> ; drug conjugated to non-active particles <a href="#">A61K 47/6921</a> )}	9/2072	. . {characterised by shape, structure or size; Tablets with holes, special break lines or identification marks; Partially coated tablets; Disintegrating flat shaped forms ( <a href="#">A61K 9/0004</a> , <a href="#">A61K 9/0056</a> , <a href="#">A61K 9/0065</a> take precedence)}
9/1682	. . . {Processes}	9/2077	. . . {Tablets comprising drug-containing microparticles in a substantial amount of supporting matrix; Multiparticulate tablets}
9/1688	. . . . {resulting in pure drug agglomerate optionally containing up to 5% of excipient}	9/2081	. . . . {with microcapsules or coated microparticles according to <a href="#">A61K 9/50</a> }
9/1694	. . . . . {resulting in granules or microspheres of the matrix type containing more than 5% of excipient}	9/2086	. . . {Layered tablets, e.g. bilayer tablets; Tablets of the type inert core-active coat (active cores with a complete drug-free outer coat <a href="#">A61K 9/28</a> )}
9/19	. . lyophilised {, i.e. freeze-dried, solutions or dispersions (lyophilised products with subsequent particle size reduction <a href="#">A61K 9/14</a> ; granules or pellets made by lyophilisation <a href="#">A61K 9/1682</a> ; solid oral dosage forms made by lyophilisation <a href="#">A61K 9/2095</a> ; lyophilisation additives <a href="#">A61K 47/00</a> )}	9/209	. . . . {containing drug in at least two layers or in the core and in at least one outer layer}
		9/2095	. . {Tabletting processes; Dosage units made by direct compression of powders or specially processed granules, by eliminating solvents, by melt-extrusion, by injection molding, by 3D printing ( <a href="#">mechanical aspects A61J 3/00</a> )}
		9/28	. . Dragees; Coated pills or tablets {, e.g. with film or compression coating ( <a href="#">A61K 9/2072</a> takes precedence, e.g. partially coated tablets <a href="#">A61K 9/2072</a> , coated multilayer tablets <a href="#">A61K 9/2086</a> , tablets with drug-coated core <a href="#">A61K 9/209</a> )}
		9/2806	. . . {Coating materials}
		9/2813	. . . . {Inorganic compounds}
		9/282	. . . . {Organic compounds, e.g. fats}

9/2826	..... {Sugars or sugar alcohols, e.g. sucrose; Derivatives thereof}	9/5015	..... {Organic compounds, e.g. fats, sugars}
9/2833	..... {Organic macromolecular compounds}	9/5021	..... {Organic macromolecular compounds}
9/284	..... {obtained by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polyvinyl pyrrolidone}	9/5026	..... {obtained by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polyvinyl pyrrolidone, poly(meth)acrylates}
9/2846	..... {Poly(meth)acrylates}	9/5031	..... {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polyethylene glycol, poly(lactide-co-glycolide)}
9/2853	..... {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polyethylene glycol, polyethylene oxide, poloxamers, poly(lactide-co-glycolide)}	9/5036	..... {Polysaccharides, e.g. gums, alginate; Cyclodextrin}
9/286	..... {Polysaccharides, e.g. gums; Cyclodextrin}	9/5042	..... {Cellulose; Cellulose derivatives, e.g. phthalate or acetate succinate esters of hydroxypropyl methylcellulose}
9/2866	..... {Cellulose; Cellulose derivatives, e.g. hydroxypropyl methylcellulose}	9/5047	..... {Cellulose ethers containing no ester groups, e.g. hydroxypropyl methylcellulose}
9/2873	..... {Proteins, e.g. gelatin}	9/5052	..... {Proteins, e.g. albumin}
9/288	..... {Compounds of unknown constitution, e.g. material from plants or animals (oils, fats, waxes, shellac <a href="#">A61K 9/282</a> )}	9/5057	..... {Gelatin}
9/2886	... {having two or more different drug-free coatings; Tablets of the type inert core-drug layer-inactive layer (of the type active core-drug layer-inactive layer <a href="#">A61K 9/209</a> )}	9/5063	..... {Compounds of unknown constitution, e.g. material from plants or animals (oils, fats, waxes, shellac <a href="#">A61K 9/5015</a> )}
9/2893	... {Tablet coating processes (mechanical aspects <a href="#">A61J 3/06</a> )}	9/5068	..... {Cell membranes or bacterial membranes enclosing drugs (with additional exogenous lipids <a href="#">A61K 9/127</a> ; virus envelopes <a href="#">A61K 9/5184</a> )}
9/48	. Preparations in capsules, e.g. of gelatin, of chocolate {( <a href="#">A61K 9/0004</a> takes precedence; bite capsules <a href="#">A61K 9/0056</a> )}	9/5073	... {having two or more different coatings optionally including drug-containing subcoatings}
9/4808	. {characterised by the form of the capsule or the structure of the filling; Capsules containing small tablets; Capsules with outer layer for immediate drug release (capsules filled with granules or microparticles <a href="#">A61K 9/16</a> ; filled with microcapsules or coated microparticles <a href="#">A61K 9/50</a> ; with mixture of different granules, microcapsules, (coated) microparticles <a href="#">A61K 9/5084</a> )}	9/5078	... . {with drug-free core}
9/4816	. . {Wall or shell material}	9/5084	... . {Mixtures of one or more drugs in different galenical forms, at least one of which being granules, microcapsules or (coated) microparticles according to <a href="#">A61K 9/16</a> or <a href="#">A61K 9/50</a> , e.g. for obtaining a specific release pattern or for combining different drugs (tablets containing such a mixture <a href="#">A61K 9/2077</a> )}
9/4825	. . . {Proteins, e.g. gelatin (gelatin capsule shells with substantial amounts of other macromolecular substances <a href="#">A61K 9/4816</a> )}	9/5089	... . {Processes}
9/4833	. . {Encapsulating processes; Filling of capsules (mechanical aspects <a href="#">A61J 3/07</a> )}	9/5094	... . {Microcapsules containing magnetic carrier material, e.g. ferrite for drug targeting}
9/4841	. . {Filling excipients; Inactive ingredients}	9/51	... . Nanocapsules; {Nanoparticles; (nanotubes <a href="#">A61K 9/0092</a> ; polymeric micelles <a href="#">A61K 9/1075</a> ; polymersomes <a href="#">A61K 9/1273</a> ; pure drug nanoparticles <a href="#">A61K 9/14</a> ; drug nanoparticles with adsorbed surface modifiers <a href="#">A61K 9/141</a> ; conjugates, e.g. between drug and non-active nanoparticles, <a href="#">A61K 47/50</a> ; preparations for <i>in vivo</i> diagnosis <a href="#">A61K 49/00</a> ; with radioactive substances <a href="#">A61K 51/00</a> )}
9/485	. . . {Inorganic compounds}	9/5107	... . {Excipients; Inactive ingredients}
9/4858	. . . {Organic compounds}	9/5115	... . . {Inorganic compounds}
9/4866	. . . {Organic macromolecular compounds}	9/5123	... . . {Organic compounds, e.g. fats, sugars}
9/4875	. . . {Compounds of unknown constitution, e.g. material from plants or animals (oils, fats, waxes, shellac <a href="#">A61K 9/4858</a> )}	9/513	... . . {Organic macromolecular compounds; Dendrimers}
9/4883	. . {Capsule finishing, e.g. dyeing, aromatising, polishing}	9/5138	... . . . . {obtained by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polyvinyl pyrrolidone, poly(meth)acrylates}
9/4891	. . {Coated capsules; Multilayered drug free capsule shells (with drug coating for immediate release <a href="#">A61K 9/4808</a> ; osmotic devices <a href="#">A61K 9/0004</a> )}	9/5146	... . . . . {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polyethylene glycol, polyamines, polyanhdydrides}
9/50	. . Microcapsules {having a gas, liquid or semi-solid filling; Solid microparticles or pellets surrounded by a distinct coating layer, e.g. coated microspheres, coated drug crystals ( <a href="#">A61K 9/2081</a> takes precedence; particles with a single coating comprising drug <a href="#">A61K 9/167</a> )}	9/5153	... . . . . {Polyesters, e.g. poly(lactide-co-glycolide)}
9/5005	. . . {Wall or coating material}		
9/501	. . . . {Inorganic compounds}		

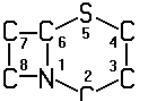
9/5161	. . . . .	{Polysaccharides, e.g. alginate, chitosan, cellulose derivatives; Cyclodextrin}		according to the type of compound. However, the inventions dealing with medicinal preparations containing at least two active organic ingredients are always classified in this group in addition to the classification for the type of compounds in <a href="#">C07C - C07J</a> .}
9/5169	. . . . .	{Proteins, e.g. albumin, gelatin}		
9/5176	. . . . .	{Compounds of unknown constitution, e.g. material from plants or animals (oils, fats, waxes, shellac <a href="#">A61K 9/5123</a> )}		
9/5184	. . . . .	{Virus capsids or envelopes enclosing drugs (with additional exogenous lipids <a href="#">A61K 9/127</a> ; bacterial membranes <a href="#">A61K 9/5068</a> )}		3. {Attention is drawn to the notes in class <a href="#">C07</a> , particularly to the definition of steroids given in Note (1) following the title of <a href="#">C07J</a> and to the definition of carbohydrates and sugars given in the notes following the title of <a href="#">C07H</a> .}
9/5192	. . . . .	{Processes}		4. {According to the last place rule, organic active compounds forming salts with heavy metals should be classified in <a href="#">A61K 33/24 - A61K 33/38</a> and not in subgroups <a href="#">A61K 31/28 - A61K 31/32</a> , <a href="#">A61K 31/555</a> or <a href="#">A61K 31/714</a> . This does not apply to complexes, as apparent from the <a href="#">A61K 31/00</a> scheme, wherein the complexes hemin and hematin are classified in <a href="#">A61K 31/555</a> and cyanocobalamin in <a href="#">A61K 31/714</a> . If a complex is formed between two or more active compounds, then they are classified according to all compounds forming the complexes followed by the symbol <a href="#">A61K 2300/00</a> (i.e. as a mixture of active organic compounds).}
9/70	.	Web, sheet or filament bases {; Films; Fibres of the matrix type containing drug ( <a href="#">hollow drug-filled fibres A61K 9/0092</a> )}		
9/7007	. .	{Drug-containing films, membranes or sheets ( <a href="#">A61K 9/0041</a> , <a href="#">A61K 9/0043</a> , <a href="#">A61K 9/006</a> , <a href="#">A61K 9/0063</a> take precedence)}		
9/7015	. .	{Drug-containing film-forming compositions, e.g. spray-on}		
9/7023	. .	{Transdermal patches and similar drug-containing composite devices, e.g. cataplasms ( <a href="#">galenical aspects of iontophoretic devices A61K 9/0009</a> ; <a href="#">microneedle arrays A61K 9/0021</a> ; buccal patches <a href="#">A61K 9/006</a> )}		
9/703	. . .	{characterised by shape or structure; Details concerning release liner or backing; Refillable patches; User-activated patches}	31/01	. Hydrocarbons
9/7038	. . . .	{Transdermal patches of the drug-in-adhesive type, i.e. comprising drug in the skin-adhesive layer}	31/015	. . carbocyclic
9/7046	. . . . .	{the adhesive comprising macromolecular compounds}	31/02	. Halogenated hydrocarbons
9/7053	. . . . .	{obtained by reactions only involving carbon to carbon unsaturated bonds, e.g. polyvinyl, polyisobutylene, polystyrene}	31/025	. . carbocyclic
9/7061	. . . . .	{Polyacrylates}	31/03	. . . aromatic
9/7069	. . . . .	{obtained otherwise than by reactions only involving carbon to carbon unsaturated bonds, e.g. polysiloxane, polyesters, polyurethane, polyethylene oxide}	31/035	. . having aliphatic unsaturation
9/7076	. . . . .	{the adhesive comprising ingredients of undetermined constitution or reaction products thereof, e.g. rosin or other plant resins}	31/04	. Nitro compounds
9/7084	. . . . .	{Transdermal patches having a drug layer or reservoir, and one or more separate drug-free skin-adhesive layers, e.g. between drug reservoir and skin, or surrounding the drug reservoir; Liquid-filled reservoir patches}	31/045	. Hydroxy compounds, e.g. alcohols; Salts thereof, e.g. alcoholates
9/7092	. . . . .	{Transdermal patches having multiple drug layers or reservoirs, e.g. for obtaining a specific release pattern, or for combining different drugs}	31/047	. . having two or more hydroxy groups, e.g. sorbitol
31/00	<b>Medicinal preparations containing organic active ingredients</b>		31/05	. . Phenols {( <a href="#">cannabinoids A61K 31/658</a> )}
	<b>NOTES</b>			
	1.	{When classifying in groups <a href="#">A61K 31/00 - A61K 41/00</a> the symbol <a href="#">A61K 2300/00</a> may be added, using Combination Sets, to indicate a mixture of active ingredients.}		<b>WARNING</b>
	2.	{In the preparation of new organic compounds and their use in medicinal preparations, classification is only made in the relevant subclasses <a href="#">C07C - C07J</a>		Group <a href="#">A61K 31/05</a> is impacted by reclassification into group <a href="#">A61K 31/658</a> . All groups listed in this Warning should be considered in order to perform a complete search.
			31/055	. . . the aromatic ring being substituted by halogen
			31/06	. . . the aromatic ring being substituted by nitro groups
			31/065	. . Diphenyl-substituted acyclic alcohols
			31/07	. . Retinol compounds, e.g. vitamin A ( <a href="#">retinoic acids A61K 31/203</a> )
			31/075	. Ethers or acetals
			31/08	. . acyclic, e.g. paraformaldehyde
			31/085	. . having an ether linkage to aromatic ring nuclear carbon
			31/09	. . . having two or more such linkages
			31/095	. Sulfur, selenium, or tellurium compounds, e.g. thiols
			31/10	. . Sulfides; Sulfoxides; Sulfones
			31/105	. . Persulfides ( <a href="#">thiuram disulfides A61K 31/145</a> ; <a href="#">thiosulfonic acids A61K 31/185</a> )
			31/11	. Aldehydes
			31/115	. . Formaldehyde
			31/12	. Ketones
			31/121	. . acyclic

31/122	. . . having the oxygen directly attached to a ring, e.g. quinones, vitamin K <sub>1</sub> , anthralin	31/19	. . . Carboxylic acids, e.g. valproic acid ( <a href="#">salicylic acid A61K 31/60</a> )
31/125	. . . Camphor; Nuclear substituted derivatives thereof	31/191	. . . having two or more hydroxy groups, e.g. gluconic acid
31/13	. Amines {( <a href="#">A61K 31/04 takes precedence</a> )}	31/192	. . . having aromatic groups, e.g. sulindac, 2-aryl-propionic acids, ethacrynic acid {( <a href="#">cannabinoids A61K 31/658</a> )}
31/131	. . . acyclic		<b>WARNING</b>
31/132	. . . having two or more amino groups, e.g. spermidine, putrescine		Group <a href="#">A61K 31/192</a> is impacted by reclassification into group <a href="#">A61K 31/658</a> .
31/133	. . . having hydroxy groups, e.g. sphingosine		All groups listed in this Warning should be considered in order to perform a complete search.
31/135	. . . having aromatic rings {, e.g. ketamine, nortriptyline ( <a href="#">methadone A61K 31/137</a> )}	31/194	. . . having two or more carboxyl groups, e.g. succinic, maleic or phthalic acid
31/136	. . . having the amino group directly attached to the aromatic ring, e.g. benzeneamine	31/195	. . . having an amino group
31/137	. . . Arylalkylamines, e.g. amphetamine, epinephrine, salbutamol, ephedrine {or methadone}	31/196	. . . the amino group being directly attached to a ring, e.g. anthranilic acid, mefenamic acid, diclofenac, chlorambucil
31/138	. . . Aryloxyalkylamines, e.g. propranolol, tamoxifen, phenoxybenzamine ( <a href="#">atenolol A61K 31/165</a> ; <a href="#">pindolol A61K 31/404</a> ; <a href="#">timolol A61K 31/537</a> )	31/197	. . . the amino and the carboxyl groups being attached to the same acyclic carbon chain, e.g. gamma-aminobutyric acid [GABA], beta-alanine, epsilon-aminocaproic acid or pantothenic acid ( <a href="#">carnitine A61K 31/205</a> )
31/14	. . . Quaternary ammonium compounds, e.g. edrophonium, choline ( <a href="#">betaines A61K 31/205</a> )	31/198	. . . Alpha-amino acids, e.g. alanine or edetic acid [EDTA] ( <a href="#">betaine A61K 31/205</a> ; <a href="#">proline A61K 31/401</a> ; <a href="#">tryptophan A61K 31/405</a> ; <a href="#">histidine A61K 31/4172</a> ; peptides not degraded to individual amino acids <a href="#">A61K 38/00</a> )
31/145	. . . having sulfur, e.g. thiurams (>N—C(S)—S—C(S)—N< and >N—C(S)—S—S—C(S)—N<), Sulfinylamines (—N=SO <sub>2</sub> ), Sulfonylamines (—N=SO <sub>2</sub> ) ( <a href="#">isothiourea A61K 31/155</a> )	31/20	. . . having a carboxyl group bound to a chain of seven or more carbon atoms, e.g. stearic, palmitic, arachidic acids
31/15	. . . Oximes (>C=N—O—); Hydrazines (>N—N<); Hydrazones (>N—N=) {; Imines (C—N=C)}	31/201	. . . having one or two double bonds, e.g. oleic, linoleic acids
31/155	. . . Amidines (—N=C—NH—), e.g. guanidine (H <sub>2</sub> N—C(=NH)—NH <sub>2</sub> ), isourea (N=C(OH)—NH <sub>2</sub> ), isothiourea (—N=C(SH)—NH <sub>2</sub> )	31/202	. . . having three or more double bonds, e.g. linolenic ( <a href="#">eicosanoids</a> , e.g. leukotrienes <a href="#">A61K 31/557</a> )
31/16	. . . Amides, e.g. hydroxamic acids	31/203	. . . Retinoic acids {; Salts thereof}
31/164	. . . of a carboxylic acid with an aminoalcohol, e.g. ceramides	31/205	. . . Amine addition salts of organic acids; Inner quaternary ammonium salts, e.g. betaine, carnitine
31/165	. . . having aromatic rings, e.g. colchicine, atenolol, progabeide	31/21	. . . Esters, e.g. nitroglycerine, selenocyanates
31/166	. . . having the carbon of a carboxamide group directly attached to the aromatic ring, e.g. procainamide, procarbazine, metoclopramide, labetalol	31/215	. . . of carboxylic acids
31/167	. . . having the nitrogen of a carboxamide group directly attached to the aromatic ring, e.g. lidocaine, paracetamol	31/216	. . . of acids having aromatic rings, e.g. benactizyne, clofibrate
31/17	. . . having the group >N—C(O)—N< or >N—C(S)—N<, e.g. urea, thiourea, carmustine ( <a href="#">isoureas, isothioureas A61K 31/155</a> ; <a href="#">sulfonylureas A61K 31/64</a> )	31/22	. . . of acyclic acids, e.g. pravastatin
31/175	. . . having the group >N—C(O)—NH—, >N—C(O)—N=N— or >N—C(O)—NH—, e.g. carbonohydrazides, carbazones, semicarbazides, semicarbazones; Thioanalogues thereof	31/221	. . . with compounds having an amino group, e.g. acetylcholine, acetylcarnitine
31/18	. . . Sulfonamides ( <a href="#">compounds containing a para-N-benzene-sulfonyl-N- group A61K 31/63</a> )	31/222	. . . with compounds having aromatic groups, e.g. dipivefrine, ibopamine
31/185	. . . Acids; Anhydrides, halides or salts thereof, e.g. sulfur acids, imidic, hydrazonic or hydroximic acids ( <a href="#">hydroxamic acids A61K 31/16</a> ; <a href="#">peroxy acids A61K 31/327</a> )	31/223	. . . of alpha-aminoacids
	<b>NOTE</b>	31/225	. . . Polycarboxylic acids
	Cyclic anhydrides are considered to be heterocyclic rings	31/23	. . . of acids having a carboxyl group bound to a chain of seven or more carbon atoms
		31/231	. . . having one or two double bonds
		31/232	. . . having three or more double bonds, e.g. etretinate
		31/235	. . . having an aromatic ring attached to a carboxyl group
		31/24	. . . having an amino or nitro group

31/245	. . . . . Amino benzoic acid types, e.g. procaine, novocaine ( <a href="#">salicylic acid esters A61K 31/60</a> )	31/365	. . . Lactones
31/25	. . . with polyoxyalkylated alcohols, e.g. esters of polyethylene glycol	31/366	. . . . having six-membered rings, e.g. delta-lactones
31/255	. . of sulfoxo acids or sulfur analogues thereof	31/37	. . . . Coumarins, e.g. psoralen
31/26	. . Cyanate or isocyanate esters; Thiocyanate or isothiocyanate esters	31/375	. . . . Ascorbic acid, i.e. vitamin C; Salts thereof
31/265	. . of carbonic, thiocarbonic, or thiocarboxylic acids, e.g. thioacetic acid, xanthogenic acid, trithiocarbonic acid	31/38	. . having sulfur as a ring hetero atom
31/27	. . of carbamic or thiocarbamic acids, meprobamate, carbachol, neostigmine	31/381	. . . having five-membered rings
31/275	. Nitriles; Isonitriles	31/382	. . . having six-membered rings, e.g. thioxanthenes ( <a href="#">thioxihene A61K 31/496</a> )
31/277	. . having a ring, e.g. verapamil	31/385	. . . having two or more sulfur atoms in the same ring
31/28	. Compounds containing heavy metals	31/39	. . . having oxygen in the same ring
31/282	. . Platinum compounds	31/395	. . . having nitrogen as a ring hetero atom, e.g. guanethidine or rifamycins
31/285	. . Arsenic compounds	31/396	. . . having three-membered rings, e.g. aziridine
31/29	. . Antimony or bismuth compounds	31/397	. . . having four-membered rings, e.g. azetidine
31/295	. . Iron group metal compounds	31/40	. . . having five-membered rings with one nitrogen as the only ring hetero atom, e.g. sulpiride, succinimide, tolmetin, buflomedil
31/30	. . Copper compounds	31/401	. . . Proline; Derivatives thereof, e.g. captopril
31/305	. . Mercury compounds	31/4015	. . . . . having oxo groups directly attached to the heterocyclic ring, e.g. piracetam, ethosuximide
31/31	. . . containing nitrogen	31/402	. . . . 1-aryl substituted, e.g. piretanide
31/315	. . Zinc compounds	31/4025	. . . . not condensed and containing further heterocyclic rings, e.g. cromakalim
31/32	. . Tin compounds	31/403	. . . . condense with carbocyclic rings, e.g. carbazole
31/325	. . Carbamic acids; Thiocarbamic acids; Anhydrides or salts thereof ( <a href="#">thiurams A61K 31/145</a> )	31/4035	. . . . Isoindoles, e.g. phthalimide
31/327	. . Peroxy compounds, e.g. hydroperoxides, peroxides, peroxyacids	31/404	. . . . Indoles, e.g. pindolol
31/33	. . Heterocyclic compounds	31/4045	. . . . . Indole-alkylamines; Amides thereof, e.g. serotonin, melatonin
31/335	. . . having oxygen as the only ring hetero atom, e.g. fungichromin	31/405	. . . . . Indole-alkanecarboxylic acids; Derivatives thereof, e.g. tryptophan, indomethacin
31/336	. . . having three-membered rings, e.g. oxirane, fumagillin	31/407	. . . . condense with other heterocyclic ring systems, e.g. ketorolac, physostigmine
31/337	. . . having four-membered rings, e.g. taxol	31/409	. . . . having four such rings, e.g. porphine derivatives, bilirubin, biliverdine ( <a href="#">hemin, hematin A61K 31/555</a> )
31/34	. . . having five-membered rings with one oxygen as the only ring hetero atom, e.g. isosorbide	31/41	. . . . having five-membered rings with two or more ring hetero atoms, at least one of which being nitrogen, e.g. tetrazole
31/341	. . . . . not condensed with another ring, e.g. ranitidine, furosemide, bufetolol, muscarine	31/415	. . . . 1,2-Diazoles
31/343	. . . . . condense with a carbocyclic ring, e.g. coumaran, bufuralol, befunolol, clobenfurol, amiodarone	31/4152	. . . . . having oxo groups directly attached to the heterocyclic ring, e.g. antipyrine, phenylbutazone, sulfapyrazone
31/345	. . . . . Nitrofurans ( <a href="#">nitrofuran A61K 31/4178</a> )	31/4155	. . . . non condensed and containing further heterocyclic rings
31/35	. . . . . having six-membered rings with one oxygen as the only ring hetero atom	31/416	. . . . condense with carbocyclic ring systems, e.g. indazole
31/351	. . . . . not condensed with another ring	31/4162	. . . . condense with heterocyclic ring systems
31/352	. . . . . condense with carbocyclic rings, e.g. methantheline {( <a href="#">cannabinoids A61K 31/658</a> )}	31/4164	. . . . 1,3-Diazoles
	<b><u>WARNING</u></b>	31/4166	. . . . having oxo groups directly attached to the heterocyclic ring, e.g. phenytoin
	Group <a href="#">A61K 31/352</a> is impacted by reclassification into group <a href="#">A61K 31/658</a> .	31/4168	. . . . having a nitrogen attached in position 2, e.g. clonidine
	All groups listed in this Warning should be considered in order to perform a complete search.	31/417	. . . . Imidazole-alkylamines, e.g. histamine, phentolamine
31/353	. . . . . 3,4-Dihydrobenzopyrans, e.g. chroman, catechin	31/4172	. . . . Imidazole-alkanecarboxylic acids, e.g. histidine
31/355	. . . . . Tocopherols, e.g. vitamin E	31/4174	. . . . Arylalkylimidazoles, e.g. oxymetazolin, naphazoline, miconazole
31/357	. . . . . having two or more oxygen atoms in the same ring, e.g. crown ethers, guanadrel		
31/36	. . . . . Compounds containing methylenedioxyphenyl groups, e.g. sesamin		

31/4178	. . . . .	not condensed 1,3-diazoles and containing further heterocyclic rings, e.g. pilocarpine, nitrofurantoin	31/4409	. . . . .	only substituted in position 4, e.g. isoniazid, iproniazid
31/4184	. . . . .	condensed with carbocyclic rings, e.g. benzimidazoles	31/4412	. . . . .	having oxo groups directly attached to the heterocyclic ring
31/4188	. . . . .	condensed with other heterocyclic ring systems, e.g. biotin, sorbinil	31/4415	. . . . .	Pyridoxine, i.e. Vitamin B <sub>6</sub> ( <a href="#">pyridoxal phosphate A61K 31/675</a> )
31/4192	. . . . .	1,2,3-Triazoles	31/4418	. . . . .	having a carbocyclic group directly attached to the heterocyclic ring, e.g. cyproheptadine
31/4196	. . . . .	1,2,4-Triazoles	31/4422	. . . . .	1,4-Dihydropyridines, e.g. nifedipine, nicardipine
31/42	. . . . .	Oxazoles	31/4425	. . . . .	Pyridinium derivatives, e.g. pralidoxime, pyridostigmine
31/421	. . . . .	1,3-Oxazoles, e.g. pemoline, trimethadione	31/4427	. . . . .	containing further heterocyclic ring systems
31/422	. . . . .	not condensed and containing further heterocyclic rings	31/443	. . . . .	containing a five-membered ring with oxygen as a ring hetero atom
31/423	. . . . .	condensed with carbocyclic rings	31/4433	. . . . .	containing a six-membered ring with oxygen as a ring hetero atom
31/424	. . . . .	condensed with heterocyclic ring systems, e.g. clavulanic acid	31/4436	. . . . .	containing a heterocyclic ring having sulfur as a ring hetero atom
31/425	. . . . .	Oxadiazoles	31/4439	. . . . .	containing a five-membered ring with nitrogen as a ring hetero atom, e.g. omeprazole ( <a href="#">nicotine A61K 31/465</a> )
31/425	. . . . .	Thiazoles	31/444	. . . . .	containing a six-membered ring with nitrogen as a ring heteroatom, e.g. amrinone
31/426	. . . . .	1,3-Thiazoles	31/445	. . . . .	Non condensed piperidines, e.g. piperocaine
31/427	. . . . .	not condensed and containing further heterocyclic rings	31/4453	. . . . .	only substituted in position 1, e.g. propipocaine, diperodon
31/428	. . . . .	condensed with carbocyclic rings	31/4458	. . . . .	only substituted in position 2, e.g. methylphenidate
31/429	. . . . .	condensed with heterocyclic ring systems	31/4462	. . . . .	only substituted in position 3
31/43	. . . . .	Compounds containing 4-thia-1-azabicyclo [3.2.0] heptane ring systems, i.e. compounds containing a ring system of the formula	31/4465	. . . . .	only substituted in position 4
			31/4468	. . . . .	having a nitrogen directly attached in position 4, e.g. clebopride, fentanyl
		penicillins, penems	31/45	. . . . .	having oxo groups directly attached to the heterocyclic ring, e.g. cycloheximide
31/431	. . . . .	containing further heterocyclic rings, e.g. ticarcillin, azlocillin, oxacillin	31/451	. . . . .	having a carbocyclic group directly attached to the heterocyclic ring, e.g. glutethimide, meperidine, loperamide, phencyclidine, piminodine
31/433	. . . . .	Thiadiazoles	31/4515	. . . . .	having a butyrophenone group in position 1, e.g. haloperidol ( <a href="#">pipamperone A61K 31/4545</a> )
31/435	. . . . .	having six-membered rings with one nitrogen as the only ring hetero atom	31/452	. . . . .	Piperidinium derivatives ( <a href="#">pancuronium A61K 31/58</a> )
31/4353	. . . . .	ortho- or peri-condensed with heterocyclic ring systems	31/4523	. . . . .	containing further heterocyclic ring systems
31/4355	. . . . .	the heterocyclic ring system containing a five-membered ring having oxygen as a ring hetero atom	31/4525	. . . . .	containing a five-membered ring with oxygen as a ring hetero atom
31/436	. . . . .	the heterocyclic ring system containing a six-membered ring having oxygen as a ring hetero atom, e.g. rapamycin	31/453	. . . . .	containing a six-membered ring with oxygen as a ring hetero atom
31/4365	. . . . .	the heterocyclic ring system having sulfur as a ring hetero atom, e.g. ticlopidine	31/4535	. . . . .	containing a heterocyclic ring having sulfur as a ring hetero atom, e.g. pizotifen
31/437	. . . . .	the heterocyclic ring system containing a five-membered ring having nitrogen as a ring hetero atom, e.g. indolizine, beta-carboline	31/454	. . . . .	containing a five-membered ring with nitrogen as a ring hetero atom, e.g. pimozide, domperidone
31/4375	. . . . .	the heterocyclic ring system containing a six-membered ring having nitrogen as a ring heteroatom, e.g. quinolizines, naphthyridines, berberine, vincamine	31/4545	. . . . .	containing a six-membered ring with nitrogen as a ring hetero atom, e.g. pipamperone, anabasine
31/438	. . . . .	The ring being spiro-condensed with carbocyclic or heterocyclic ring systems			
31/439	. . . . .	the ring forming part of a bridged ring system, e.g. quinuclidine ( <a href="#">8-azabicyclo[3.2.1] octanes A61K 31/46</a> )			
31/44	. . . . .	Non condensed pyridines; Hydrogenated derivatives thereof			
31/4402	. . . . .	only substituted in position 2, e.g. pheniramine, bisacodyl			
31/4406	. . . . .	only substituted in position 3, e.g. zimeldine ( <a href="#">nicotinic acid A61K 31/455</a> )			

31/455	..... Nicotinic acids, e.g. niacin; Derivatives thereof, e.g. esters, amides	31/502	..... ortho- or peri-condensed with carbocyclic ring systems, e.g. cinnoline, phthalazine
31/46	..... 8-Azabicyclo [3.2.1] octane; Derivatives thereof, e.g. atropine, cocaine	31/5025	..... ortho- or peri-condensed with heterocyclic ring systems
31/465	..... Nicotine; Derivatives thereof	31/503	..... spiro-condensed
31/47	..... Quinolines; Isoquinolines	31/504	..... forming part of bridged ring systems
31/4704	..... 2-Quinolinones, e.g. carbostyril	31/505	..... Pyrimidines; Hydrogenated pyrimidines, e.g. trimethoprim
31/4706	..... 4-Aminoquinolines; 8-Aminoquinolines, e.g. chloroquine, primaquine	31/506	..... not condensed and containing further heterocyclic rings
31/4709	..... Non-condensed quinolines and containing further heterocyclic rings	31/51	..... Thiamines, e.g. vitamin B <sub>1</sub>
31/472	..... Non-condensed isoquinolines, e.g. papaverine	31/513	..... having oxo groups directly attached to the heterocyclic ring, e.g. cytosine
31/4725	..... containing further heterocyclic rings	31/515	..... Barbituric acids; Derivatives thereof, e.g. sodium pentobarbital
31/473	..... ortho- or peri-condensed with carbocyclic ring systems, e.g. acridines, phenanthridines	31/517	..... ortho- or peri-condensed with carbocyclic ring systems, e.g. quinazoline, perimidine
31/4738	..... ortho- or peri-condensed with heterocyclic ring systems	31/519	..... ortho- or peri-condensed with heterocyclic rings
31/4741	..... condensed with ring systems having oxygen as a ring hetero atom, e.g. tubocuraran derivatives, noscapine, bicuculline	31/52	..... Purines, e.g. adenine
31/4743	..... condensed with ring systems having sulfur as a ring hetero atom	31/522	..... having oxo groups directly attached to the heterocyclic ring, e.g. hypoxanthine, guanine, acyclovir
31/4745	..... condensed with ring systems having nitrogen as a ring hetero atom, e.g. phenantrolines ( <a href="#">yohimbine derivatives</a> , <a href="#">vinblastine A61K 31/475</a> ; <a href="#">ergoline derivatives A61K 31/48</a> )	31/525	..... Isoalloxazines, e.g. riboflavins, vitamin B <sub>2</sub>
31/4747	..... spiro-condensed	31/527	..... spiro-condensed
31/4748	..... forming part of bridged ring systems ( <a href="#">strychnine A61K 31/475</a> ; <a href="#">morphinan derivatives A61K 31/485</a> )	31/529	..... forming part of bridged ring systems
31/475	..... having an indole ring, e.g. yohimbine, reserpine, strychnine, vinblastine ( <a href="#">vincamine A61K 31/4375</a> )	31/53	..... having six-membered rings with three nitrogens as the only ring hetero atoms, e.g. chlorazanil, melamine ( <a href="#">melarsoprol A61K 31/555</a> {; with four nitrogen atoms A61K 31/495})
31/48	..... Ergoline derivatives, e.g. lysergic acid, ergotamine	31/535	..... having six-membered rings with at least one nitrogen and one oxygen as the ring hetero atoms, e.g. 1,2-oxazines
31/485	..... Morphinan derivatives, e.g. morphine, codeine	31/5355	..... Non-condensed oxazines and containing further heterocyclic rings
31/49	..... Cinchonan derivatives, e.g. quinine	31/536	..... ortho- or peri-condensed with carbocyclic ring systems
31/495	..... having six-membered rings with two {or more} nitrogen atoms as the only ring heteroatoms, e.g. piperazine {or tetrazines}( <a href="#">A61K 31/48 takes precedence {; with three nitrogen atoms A61K 31/53}</a> )	31/5365	..... ortho- or peri-condensed with heterocyclic ring systems
31/496	..... Non-condensed piperazines containing further heterocyclic rings, e.g. rifampin, thiothixene or sparfloxacin	31/537	..... spiro-condensed or forming part of bridged ring systems
31/4965	..... Non-condensed pyrazines	31/5375	..... 1,4-Oxazines, e.g. morpholine
31/497	..... containing further heterocyclic rings	31/5377	..... not condensed and containing further heterocyclic rings, e.g. timolol
31/498	..... Pyrazines or piperazines ortho- and peri-condensed with carbocyclic ring systems, e.g. quinoxaline, phenazine	31/538	..... ortho- or peri-condensed with carbocyclic ring systems
31/4985	..... Pyrazines or piperazines ortho- or peri-condensed with heterocyclic ring systems	31/5383	..... ortho- or peri-condensed with heterocyclic ring systems
31/499	..... Spiro-condensed pyrazines or piperazines	31/5386	..... spiro-condensed or forming part of bridged ring systems
31/4995	..... Pyrazines or piperazines forming part of bridged ring systems	31/539	..... having two or more oxygen atoms in the same ring, e.g. dioxazines
31/50	..... Pyridazines; Hydrogenated pyridazines	31/5395	..... having two or more nitrogen atoms in the same ring, e.g. oxadiazines
31/501	..... not condensed and containing further heterocyclic rings	31/54	..... having six-membered rings with at least one nitrogen and one sulfur as the ring hetero atoms, e.g. sulthiame
		31/541	..... Non-condensed thiazines containing further heterocyclic rings
		31/5415	..... ortho- or peri-condensed with carbocyclic ring systems, e.g. phenothiazine, chlorpromazine, piroxicam

- 31/542 . . . . . ortho- or peri-condensed with heterocyclic ring systems
- 31/545 . . . . . Compounds containing 5-thia-1-azabicyclo [4.2.0] octane ring systems, i.e. compounds containing a ring system of the formula:  
  
 cephalosporins, {cefaclor, or cephalexine}
- 31/546 . . . . . containing further heterocyclic rings, e.g. cephalothin
- 31/547 . . . . . spiro-condensed or forming part of bridged ring systems
- 31/548 . . . . . having two or more sulfur atoms in the same ring
- 31/549 . . . . . having two or more nitrogen atoms in the same ring, e.g. hydrochlorothiazide
- 31/55 . . . . . having seven-membered rings, e.g. azelastine, pentylenetetrazole
- 31/551 . . . . . having two nitrogen atoms, e.g. dilazep
- 31/5513 . . . . . 1,4-Benzodiazepines, e.g. diazepam {or clozapine}
- 31/5517 . . . . . condensed with five-membered rings having nitrogen as a ring hetero atom, e.g. imidazobenzodiazepines, triazolam
- 31/553 . . . . . having at least one nitrogen and one oxygen as ring hetero atoms, e.g. loxapine, staurosporine
- 31/554 . . . . . having at least one nitrogen and one sulfur as ring hetero atoms, e.g. clothiapine, diltiazem
- 31/5545 . . . {having eight-membered rings not containing additional condensed and non-condensed nitrogen-containing 3-7 membered rings}

**NOTE**

{This subgroup does not cover N-containing eight-membered rings which also contain additional condensed and non-condensed nitrogen containing 3-7 membered rings, which are covered by subgroups [A61K 31/396 - A61K 31/554](#).}

- 31/555 . . . containing heavy metals, e.g. hemin, hematin, melsoprol
- 31/557 . . Eicosanoids, e.g. leukotrienes {or prostaglandins}
- 31/5575 . . having a cyclopentane, e.g. prostaglandin E<sub>2</sub>, prostaglandin F<sub>2-alpha</sub>
- 31/5578 . . having a pentalene ring system, e.g. carbacyclin, iloprost
- 31/558 . . having heterocyclic rings containing oxygen as the only ring hetero atom, e.g. thromboxanes
- 31/5585 . . . having five-membered rings containing oxygen as the only ring hetero atom, e.g. prostacyclin
- 31/559 . . . having heterocyclic rings containing hetero atoms other than oxygen
- 31/56 . . Compounds containing cyclopenta[a]hydrophenanthrene ring systems; Derivatives thereof, e.g. steroids

**NOTE**

Attention is drawn to Note (1) following the title of subclass [C07J](#) which explains what is covered by the term "steroids"

- 31/565 . . . not substituted in position 17 beta by a carbon atom, e.g. estrane, estradiol
- 31/566 . . . having an oxo group in position 17, e.g. estrone
- 31/567 . . . substituted in position 17 alpha, e.g. mestranol, norethandrolone
- 31/568 . . . substituted in positions 10 and 13 by a chain having at least one carbon atom, e.g. androstanes, e.g. testosterone
- 31/5685 . . . having an oxo group in position 17, e.g. androsterone
- 31/569 . . . substituted in position 17 alpha, e.g. ethisterone
- 31/57 . . . substituted in position 17 beta by a chain of two carbon atoms, e.g. pregnane or progesterone
- 31/573 . . . substituted in position 21, e.g. cortisone, dexamethasone, prednisone or aldosterone
- 31/575 . . . substituted in position 17 beta by a chain of three or more carbon atoms, e.g. cholane, cholestane, ergosterol, sitosterol
- 31/58 . . . containing heterocyclic rings, e.g. danazol, stanozolol, pancuronium or digitogenin ([digitoxin A61K 31/7048](#))
- 31/585 . . . containing lactone rings, e.g. oxandrolone, bufalin
- 31/59 . . Compounds containing 9, 10- seco-cyclopenta[a]hydrophenanthrene ring systems
- 31/592 . . . 9,10-Secoergostane derivatives, e.g. ergocalciferol, i.e. vitamin D<sub>2</sub>
- 31/593 . . . 9,10-Secocolestane derivatives, e.g. cholecalciferol, i.e. vitamin D<sub>3</sub>
- 31/60 . . Salicylic acid; Derivatives thereof
- 31/603 . . . having further aromatic rings, e.g. diflunisal
- 31/606 . . . having amino groups
- 31/609 . . . Amides, e.g. salicylamide {[labetalol, metoclopramide A61K 31/166](#)}
- 31/612 . . . having the hydroxy group in position 2 esterified, e.g. salicylsulfuric acid ([fosfosal A61K 31/661](#))
- 31/616 . . . by carboxylic acids, e.g. acetylsalicylic acid
- 31/618 . . . having the carboxyl group in position 1 esterified, e.g. salsalate
- 31/621 . . . having the hydroxy group in position 2 esterified, e.g. benorylate
- 31/625 . . . having heterocyclic substituents, e.g. 4-salicycloylmorpholine, ([sulfasalazine A61K 31/635](#))
- 31/63 . . Compounds containing para-N-benzenesulfonyl-N-groups, e.g. sulfanilamide, p-nitrobenzenesulfonyl hydrazide
- 31/635 . . . having a heterocyclic ring, e.g. sulfadiazine
- 31/64 . . Sulfonylureas, e.g. glibenclamide, tolbutamide, chlorpropamide
- 31/65 . . Tetracyclines
- 31/655 . . . Azo (—N=N—), diazo (=N<sub>2</sub>), azoxy (>N—O—N< or N(=O)—N<), azido (—N<sub>3</sub>) or diazoamino (—N=N—N<) compounds

31/658	<ul style="list-style-type: none"> <li>. {o-phenolic cannabinoids, e.g. cannabidiol, cannabigerolic acid, cannabichromene or tetrahydronannabinol}</li> </ul>
<b><u>WARNING</u></b>	
	<p>Group <a href="#">A61K 31/658</a> is incomplete pending reclassification of documents from groups <a href="#">A61K 31/05</a>, <a href="#">A61K 31/192</a> and <a href="#">A61K 31/352</a>.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
31/66	<ul style="list-style-type: none"> <li>. Phosphorus compounds</li> </ul>
31/661	<ul style="list-style-type: none"> <li>. . Phosphorus acids or esters thereof not having P—C bonds, e.g. fosfosal, dichlorvos, malathion {or mevinphos}</li> </ul>
31/6615	<ul style="list-style-type: none"> <li>. . . Compounds having two or more esterified phosphorus acid groups, e.g. inositol triphosphate, phytic acid</li> </ul>
31/662	<ul style="list-style-type: none"> <li>. . Phosphorus acids or esters thereof having P—C bonds, e.g. fosfarnet, trichlorfon</li> </ul>
31/663	<ul style="list-style-type: none"> <li>. . . Compounds having two or more phosphorus acid groups or esters thereof, e.g. clodronic acid, pamidronic acid</li> </ul>
31/664	<ul style="list-style-type: none"> <li>. . Amides of phosphorus acids</li> </ul>
31/665	<ul style="list-style-type: none"> <li>. . having oxygen as a ring hetero atom, e.g. fosfomycin</li> </ul>
31/67	<ul style="list-style-type: none"> <li>. . having sulfur as a ring hetero atom</li> </ul>
31/675	<ul style="list-style-type: none"> <li>. . having nitrogen as a ring hetero atom, e.g. pyridoxal phosphate</li> </ul>
31/683	<ul style="list-style-type: none"> <li>. . Diesters of a phosphorus acid with two hydroxy compounds, e.g. phosphatidylinositols</li> </ul>
31/685	<ul style="list-style-type: none"> <li>. . . one of the hydroxy compounds having nitrogen atoms, e.g. phosphatidylserine, lecithin</li> </ul>
31/688	<ul style="list-style-type: none"> <li>. . . both hydroxy compounds having nitrogen atoms, e.g. sphingomyelins</li> </ul>
31/69	<ul style="list-style-type: none"> <li>. Boron compounds</li> </ul>
31/695	<ul style="list-style-type: none"> <li>. Silicon compounds</li> </ul>
31/70	<ul style="list-style-type: none"> <li>. Carbohydrates; Sugars; Derivatives thereof (<a href="#">sorbitol A61K 31/047</a>)</li> </ul>
<b><u>NOTE</u></b>	
	<p>In this group, the expressions are used with the meanings indicated in Note (3) following the title of the subclass <a href="#">C07H</a></p>
31/7004	<ul style="list-style-type: none"> <li>. . Monosaccharides having only carbon, hydrogen and oxygen atoms</li> </ul>
31/7008	<ul style="list-style-type: none"> <li>. . Compounds having an amino group directly attached to a carbon atom of the saccharide radical, e.g. D-galactosamine, ranimustine</li> </ul>
31/7012	<ul style="list-style-type: none"> <li>. . Compounds having a free or esterified carboxyl group attached, directly or through a carbon chain, to a carbon atom of the saccharide radical, e.g. glucuronic acid, neuraminic acid (<a href="#">gluconic acid A61K 31/191</a>; <a href="#">ascorbic acid A61K 31/375</a>)</li> </ul>
31/7016	<ul style="list-style-type: none"> <li>. . Disaccharides, e.g. lactose, lactulose (<a href="#">lactobionic acid A61K 31/7032</a>)</li> </ul>
31/702	<ul style="list-style-type: none"> <li>. . Oligosaccharides, i.e. having three to five saccharide radicals attached to each other by glycosidic linkages</li> </ul>
31/7024	<ul style="list-style-type: none"> <li>. . Esters of saccharides</li> </ul>
31/7028	<ul style="list-style-type: none"> <li>. . Compounds having saccharide radicals attached to non-saccharide compounds by glycosidic linkages</li> </ul>

31/7032	<ul style="list-style-type: none"> <li>. . . attached to a polyol, i.e. compounds having two or more free or esterified hydroxy groups, including the hydroxy group involved in the glycosidic linkage, e.g. monoglucoyldiacylglycerides, lactobionic acid, gangliosides</li> </ul>
31/7034	<ul style="list-style-type: none"> <li>. . . attached to a carbocyclic compound, e.g. phloridzin</li> </ul>
31/7036	<ul style="list-style-type: none"> <li>. . . . having at least one amino group directly attached to the carbocyclic ring, e.g. streptomycin, gentamycin, amikacin, validamycin, fortimicins</li> </ul>
31/704	<ul style="list-style-type: none"> <li>. . . . attached to a condensed carbocyclic ring system, e.g. sennosides, thiocolchicosides, escin, daunorubicin {(<a href="#">digitoxin A61K 31/7048</a>)}</li> </ul>
31/7042	<ul style="list-style-type: none"> <li>. . Compounds having saccharide radicals and heterocyclic rings</li> </ul>
31/7048	<ul style="list-style-type: none"> <li>. . . having oxygen as a ring hetero atom, e.g. leucoglucosan, hesperidin, erythromycin, nystatin {, <a href="#">digitoxin or digoxin</a>}</li> </ul>
31/7052	<ul style="list-style-type: none"> <li>. . . having nitrogen as a ring hetero atom, e.g. nucleosides, nucleotides</li> </ul>
31/7056	<ul style="list-style-type: none"> <li>. . . . containing five-membered rings with nitrogen as a ring hetero atom</li> </ul>
31/706	<ul style="list-style-type: none"> <li>. . . . containing six-membered rings with nitrogen as a ring hetero atom</li> </ul>
31/7064	<ul style="list-style-type: none"> <li>. . . . . containing condensed or non-condensed pyrimidines</li> </ul>
31/7068	<ul style="list-style-type: none"> <li>. . . . . having oxo groups directly attached to the pyrimidine ring, e.g. cytidine, cytidylic acid</li> </ul>
31/7072	<ul style="list-style-type: none"> <li>. . . . . having two oxo groups directly attached to the pyrimidine ring, e.g. uridine, uridylic acid, thymidine, zidovudine</li> </ul>
31/7076	<ul style="list-style-type: none"> <li>. . . . . containing purines, e.g. adenosine, adenylic acid</li> </ul>
31/708	<ul style="list-style-type: none"> <li>. . . . . having oxo groups directly attached to the purine ring system, e.g. guanosine, guanylic acid</li> </ul>
31/7084	<ul style="list-style-type: none"> <li>. . Compounds having two nucleosides or nucleotides, e.g. nicotinamide-adenine dinucleotide, flavine-adenine dinucleotide</li> </ul>
31/7088	<ul style="list-style-type: none"> <li>. . Compounds having three or more nucleosides or nucleotides</li> </ul>
31/7105	<ul style="list-style-type: none"> <li>. . . Natural ribonucleic acids, i.e. containing only riboses attached to adenine, guanine, cytosine or uracil and having 3'-5' phosphodiester links</li> </ul>
31/711	<ul style="list-style-type: none"> <li>. . . Natural deoxyribonucleic acids, i.e. containing only 2'-deoxyribose attached to adenine, guanine, cytosine or thymine and having 3'-5' phosphodiester links</li> </ul>
31/7115	<ul style="list-style-type: none"> <li>. . . Nucleic acids or oligonucleotides having modified bases, i.e. other than adenine, guanine, cytosine, uracil or thymine</li> </ul>
31/712	<ul style="list-style-type: none"> <li>. . . Nucleic acids or oligonucleotides having modified sugars, i.e. other than ribose or 2'-deoxyribose</li> </ul>
31/7125	<ul style="list-style-type: none"> <li>. . . Nucleic acids or oligonucleotides having modified internucleoside linkage, i.e. other than 3'-5' phosphodiesters</li> </ul>
31/713	<ul style="list-style-type: none"> <li>. . . Double-stranded nucleic acids or oligonucleotides</li> </ul>
31/7135	<ul style="list-style-type: none"> <li>. . . Compounds containing heavy metals</li> </ul>

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31/714	. . . Cobalamins, e.g. cyanocobalamin, i.e. vitamin B <sub>12</sub>	33/20	. Elemental chlorine; Inorganic compounds releasing chlorine
31/715	. . Polysaccharides, i.e. having more than five saccharide radicals attached to each other by glycosidic linkages; Derivatives thereof, e.g. ethers, esters	33/22	. Boron compounds
31/716	. . . Glucans	33/24	. Heavy metals; Compounds thereof
31/717	. . . . Celluloses	33/241	. . Lead; Compounds thereof
31/718	. . . . Starch or degraded starch, e.g. amylose, amylopectin	33/242	. . Gold; Compounds thereof
31/719	. . . . Pullulans	33/243	. . Platinum; Compounds thereof
31/721	. . . . Dextrans	33/244	. . Lanthanides; Compounds thereof ( <b>medicinal preparations containing radioactive lanthanides for use in therapy or testing in vivo A61K 51/00</b> )
31/722	. . . . Chitin, chitosan	33/245	. . Bismuth; Compounds thereof
31/723	. . . . Xanthans	33/26	. . Iron; Compounds thereof
31/724	. . . . Cyclodextrins	33/28	. . Mercury; Compounds thereof
31/726	. . . Glycosaminoglycans, i.e. mucopolysaccharides ( <b>chondroitin sulfate, dermatan sulfate A61K 31/737</b> )	33/30	. . Zinc; Compounds thereof
31/727	. . . . Heparin; Heparan	33/32	. . Manganese; Compounds thereof
31/728	. . . . Hyaluronic acid	33/34	. . Copper; Compounds thereof
31/729	. . . . Agar; Agarose; Agaropectin	33/36	. . Arsenic; Compounds thereof
31/731	. . . Carrageenans	33/38	. . Silver; Compounds thereof
31/732	. . . Pectin	33/40	. Peroxides
31/733	. . . Fructosans, e.g. inulin	33/42	. Phosphorus; Compounds thereof
31/734	. . . Alginic acid	33/44	. Elemental carbon, e.g. charcoal, carbon black
31/736	. . . Glucomannans or galactomannans, e.g. locust bean gum, guar gum	<b>35/00</b>	<b>Medicinal preparations containing materials or reaction products thereof with undetermined constitution</b>
31/737	. . . Sulfated polysaccharides, e.g. chondroitin sulfate, dermatan sulfate ( <b>A61K 31/727 takes precedence</b> )		<b>NOTES</b>
31/738	. . . Cross-linked polysaccharides		1. In this group, classification is made for each active component or material. For each active component or material, classification is then made in the last appropriate place.
31/739	. . . Lipopolysaccharides		2. When classifying in this group, classification is also made in group <b>B01D 15/08</b> insofar as subject matter of general interest relating to chromatography is concerned.
31/74	. . Synthetic polymeric materials	35/02	. from inanimate materials ( <b>carbon A61K 33/44</b> )
31/745	. . Polymers of hydrocarbons	35/04	. . Tars; Bitumens; Mineral oils; Ammonium bituminosulfonate
31/75	. . . of ethene	35/06	. . . Mineral oils, e.g. paraffinic oils or aromatic oils based on aromatic hydrocarbons
31/755	. . Polymers containing halogen	35/08	. . Mineral waters; Sea water
31/76	. . . of vinyl chloride	35/10	. . Peat; Amber; Turf; Humus
31/765	. . Polymers containing oxygen	2035/11	. { <b>Medicinal preparations comprising living prokaryotic cells</b> }
31/77	. . . of oxiranes	2035/115	. . { <b>Probiotics</b> }
31/775	. . . Phenolic resins	35/12	. Materials from mammals; Compositions comprising non-specified tissues or cells; Compositions comprising non-embryonic stem cells; Genetically modified cells ( <b>vaccines or medicinal preparations containing antigens or antibodies A61K 39/00</b> )
31/78	. . . of acrylic acid or derivatives thereof		<b>NOTE</b>
31/785	. . Polymers containing nitrogen		If the cells are characterised, classification is made in the group covering the corresponding tissue or tissue of origin.
31/787	. . . containing heterocyclic rings having nitrogen as a ring hetero atom	2035/122	. . { <b>for inducing tolerance or suppression of immune responses</b> }
31/79	. . . . Polymers of vinyl pyrrolidone	2035/124	. . { <b>the cells being hematopoietic, bone marrow derived or blood cells</b> }
31/795	. . Polymers containing sulfur	2035/126	. . { <b>Immunoprotecting barriers, e.g. jackets, diffusion chambers</b> }
31/80	. . Polymers containing hetero atoms not provided for in groups <b>A61K 31/755 - A61K 31/795</b>	2035/128	. . . { <b>capsules, e.g. microcapsules</b> }
<b>33/00</b>	<b>Medicinal preparations containing inorganic active ingredients</b>		
33/02	. Ammonia; Compounds thereof		
33/04	. Sulfur, selenium or tellurium; Compounds thereof		
33/06	. Aluminium, calcium or magnesium; Compounds thereof {, e.g. clay}		
33/08	. . Oxides; Hydroxides		
33/10	. . Carbonates; Bicarbonates		
33/12	. . Magnesium silicate		
33/14	. . Alkali metal chlorides; Alkaline earth metal chlorides		
33/16	. Fluorine compounds		
33/18	. Iodine; Compounds thereof		

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35/13	. . . Tumour cells, irrespective of tissue of origin ( <a href="#">tumour vaccines A61K 39/00</a> )	35/50	. . . Placenta; Placental stem cells; Amniotic fluid; Amnion; Amniotic stem cells
35/14	. . . Blood; Artificial blood ( <a href="#">perfluorocarbons A61K 31/02</a> ; <a href="#">umbilical cord blood A61K 35/51</a> ; <a href="#">haemoglobin A61K 38/42</a> )	35/51	. . . Umbilical cord; Umbilical cord blood; Umbilical stem cells
35/15	. . . Cells of the myeloid line, e.g. granulocytes, basophils, eosinophils, neutrophils, leucocytes, monocytes, macrophages or mast cells; Myeloid precursor cells; Antigen-presenting cells, e.g. dendritic cells ( <a href="#">presenting a specific antigen A61K 39/00</a> ; <a href="#">therapeutic combinations of antibodies, or fragments thereof, and blood-derived cells A61K 39/00</a> )	35/52	. . . Sperm; Prostate; Seminal fluid; Leydig cells of testes
35/16	. . . Blood plasma; Blood serum ( <a href="#">umbilical cord blood A61K 35/51</a> )	35/54	. . . Ovaries; Ova; Ovules; Embryos; Foetal cells; Germ cells
35/17	. . . Lymphocytes; B-cells; T-cells; Natural killer cells; Interferon-activated or cytokine-activated lymphocytes ( <a href="#">when activated by a specific antigen A61K 39/00</a> )	35/545	. . . Embryonic stem cells; Pluripotent stem cells; Induced pluripotent stem cells; Uncharacterised stem cells
35/18	. . . Erythrocytes ( <a href="#">haemoglobin A61K 38/42</a> )	35/55	. . . Glands not provided for in groups <a href="#">A61K 35/22 - A61K 35/545</a> , e.g. thyroids, parathyroids or pineal glands
35/19	. . . Platelets; Megacaryocytes	35/56	. Materials from animals other than mammals
35/20	. . . Milk; Whey; Colostrum	35/57	. . . Birds; Materials from birds, e.g. eggs, feathers, egg white, egg yolk or endothelium corneum gigeriae galli
35/22	. . . Urine; Urinary tract, e.g. kidney or bladder; Intraglomerular mesangial cells; Renal mesenchymal cells; Adrenal gland	35/58	. . . Reptiles ( <a href="#">antigens from snakes A61K 39/38</a> )
35/24	. . . Mucus; Mucous glands; Bursa; Synovial fluid; Arthral fluid; Excreta; Spinal fluid ( <a href="#">saliva A61K 35/38</a> )	35/583	. . . Snakes; Lizards, e.g. chameleons ( <a href="#">therapeutic use of a snake venom protein A61K 38/00</a> )
35/26	. . . Lymph; Lymph nodes; Thymus; Spleen; Splenocytes; Thymocytes	35/586	. . . Turtles; Tortoises, e.g. terrapins
35/28	. . . Bone marrow; Haematopoietic stem cells; Mesenchymal stem cells of any origin, e.g. adipose-derived stem cells	35/60	. . . Fish, e.g. seahorses; Fish eggs
35/30	. . . Nerves; Brain; Eyes; Corneal cells; Cerebrospinal fluid; Neuronal stem cells; Neuronal precursor cells; Glial cells; Oligodendrocytes; Schwann cells; Astroglia; Astrocytes; Choroid plexus; Spinal cord tissue	35/612	. . . Crustaceans, e.g. crabs, lobsters, shrimps, krill or crayfish; Barnacles
35/32	. . . Bones; Osteocytes; Osteoblasts; Tendons; Tenocytes; Teeth; Odontoblasts; Cartilage; Chondrocytes; Synovial membrane	35/614	. . . Cnidaria, e.g. sea anemones, corals, coral animals or jellyfish
35/33	. . . Fibroblasts	35/616	. . . Echinodermata, e.g. starfish, sea cucumbers or sea urchins
35/34	. . . Muscles; Smooth muscle cells; Heart; Cardiac stem cells; Myoblasts; Myocytes; Cardiomyocytes ( <a href="#">vascular smooth muscle A61K 35/44</a> )	35/618	. . . Molluscs, e.g. fresh-water molluscs, oysters, clams, squids, octopus, cuttlefish, snails or slugs
35/35	. . . Fat tissue; Adipocytes; Stromal cells; Connective tissues ( <a href="#">adipose-derived stem cells A61K 35/28</a> ; <a href="#">collagen A61K 38/39</a> )	35/62	. . . Leeches; Worms, e.g. cestodes, tapeworms, nematodes, roundworms, earth worms, ascarids, filarias, hookworms, trichinella or taenia
35/36	. . . Skin; Hair; Nails; Sebaceous glands; Cerumen; Epidermis; Epithelial cells; Keratinocytes; Langerhans cells; Ectodermal cells ( <a href="#">islets of Langerhans A61K 35/39</a> )	35/63	. . . Arthropods ( <a href="#">aquatic crustaceans A61K 35/612</a> )
35/37	. . . Digestive system	35/64	. . . Insects, e.g. bees, wasps or fleas
35/38	. . . Stomach; Intestine; Goblet cells; Oral mucosa; Saliva	35/644	. . . Beeswax; Propolis; Royal jelly; Honey
35/39	. . . Pancreas; Islets of Langerhans ( <a href="#">Langerhans cells of epidermis A61K 35/36</a> )	35/646	. . . Arachnids, e.g. spiders, scorpions, ticks or mites
35/407	. . . Liver; Hepatocytes	35/648	. . . Myriapods, e.g. centipedes or millipedes
35/413	. . . Gall bladder; Bile	35/65	. . . Amphibians, e.g. toads, frogs, salamanders or newts
35/42	. . . Respiratory system, e.g. lungs, bronchi or lung cells	35/655	. . . Aquatic animals other than those covered by groups <a href="#">A61K 35/57 - A61K 35/65</a>
35/44	. . . Vessels; Vascular smooth muscle cells; Endothelial cells; Endothelial progenitor cells	35/66	. . . Microorganisms or materials therefrom ( <a href="#">fungi, yeasts or candida A61K 36/06</a> )
35/48	. . . Reproductive organs	35/68	. . . Protozoa, e.g. flagella, amoebas, sporozoans, plasmodium or toxoplasma
		35/74	. . . Bacteria ( <a href="#">therapeutic use of a bacterial protein A61K 38/00</a> )
		35/741	. . . Probiotics ( <a href="#">probiotic yeast, e.g. saccharomyces A61K 36/06</a> )
		35/742	. . . Spore-forming bacteria, e.g. Bacillus coagulans, Bacillus subtilis, clostridium or Lactobacillus sporogenes
		35/744	. . . Lactic acid bacteria, e.g. enterococci, pediococci, lactococci, streptococci or leuconostocs
		35/745	. . . Bifidobacteria
		35/747	. . . Lactobacilli, e.g. L. acidophilus or L. brevis
		35/748	. . . Cyanobacteria, i.e. blue-green bacteria or blue-green algae, e.g. spirulina ( <a href="#">algae, microalgae or microphytes A61K 36/02</a> )

35/76	. . . Viruses; Subviral particles; Bacteriophages	36/12	. . . Filicopsida or Pteridopsida
35/761	. . . Adenovirus	36/126	. . . Drynaria
35/763	. . . Herpes virus	36/13	. . Coniferophyta (gymnosperms)
35/765	. . . Reovirus; Rotavirus	36/14	. . . Cupressaceae (Cypress family), e.g. juniper or cypress
35/766	. . . Rhabdovirus, e.g. vesicular stomatitis virus	36/15	. . . Pinaceae (Pine family), e.g. pine or cedar
35/768	. . . Oncolytic viruses not provided for in groups <a href="#">A61K 35/761 - A61K 35/766</a>	36/16	. . Ginkgophyta, e.g. Ginkgoaceae (Ginkgo family)
<b>36/00</b>	<b>Medicinal preparations of undetermined constitution containing material from algae, lichens, fungi or plants, or derivatives thereof, e.g. traditional herbal medicines {antigens from pollen <a href="#">A61K 39/36</a>}</b>	36/17	. . . Gnetophyta, e.g. Ephedraceae (Mormon-tea family)
	<b>NOTE</b>	36/18	. . . Magnoliophyta (angiosperms)
	In this group, common names of plants, where given, are presented in brackets following their corresponding Latin names.		
36/02	. . Algae		<b>WARNING</b>
36/03	. . . Phaeophycota or phaeophyta (brown algae), e.g. Fucus		Group <a href="#">A61K 36/18</a> is impacted by reclassification into groups <a href="#">A61K 36/348</a> , <a href="#">A61K 36/3482</a> , <a href="#">A61K 36/3486</a> , <a href="#">A61K 36/577</a> , <a href="#">A61K 36/5775</a> , <a href="#">A61K 36/5777</a> and <a href="#">A61K 36/742</a> .
36/04	. . . Rhodophycota or rhodophyta (red algae), e.g. Porphyra		All groups listed in this Warning should be considered in order to perform a complete search.
36/05	. . . Chlorophycota or chlorophyta (green algae), e.g. Chlorella	36/185	. . . Magnoliopsida (dicotyledons)
36/06	. . Fungi, e.g. yeasts		<b>WARNING</b>
36/062	. . . Ascomycota		Group <a href="#">A61K 36/185</a> is impacted by reclassification into groups <a href="#">A61K 36/348</a> , <a href="#">A61K 36/3482</a> , <a href="#">A61K 36/3486</a> , <a href="#">A61K 36/577</a> , <a href="#">A61K 36/5775</a> , <a href="#">A61K 36/5777</a> and <a href="#">A61K 36/742</a> .
36/064	. . . Saccharomycetales, e.g. baker's yeast		All groups listed in this Warning should be considered in order to perform a complete search.
36/066	. . . Clavicipitaceae	36/19	. . . Acanthaceae (Acanthus family)
36/068	. . . . Cordyceps	36/195	. . . . Strobilanthes
36/07	. . . Basidiomycota, e.g. Cryptococcus	36/20	. . . . Aceraceae (Maple family)
	<b>WARNING</b>	36/21	. . . . Amaranthaceae (Amaranth family), e.g. pigweed, rockwort or globe amaranth
	Group <a href="#">A61K 36/07</a> is impacted by reclassification into groups <a href="#">A61K 36/071</a> and <a href="#">A61K 36/078</a> .	36/22	. . . . Anacardiaceae (Sumac family), e.g. smoketree, sumac or poison oak
	Groups <a href="#">A61K 36/07</a> , <a href="#">A61K 36/071</a> and <a href="#">A61K 36/078</a> should be considered in order to perform a complete search.	36/23	. . . . Apiaceae or Umbelliferae (Carrot family), e.g. dill, chervil, coriander or cumin
36/071	. . . {Agaricus}	36/232	. . . . Angelica
	<b>WARNING</b>	36/233	. . . . Bupleurum
	Group <a href="#">A61K 36/071</a> is incomplete pending reclassification of documents from group <a href="#">A61K 36/07</a> .	36/234	. . . . Cnidium (snowparsley)
	Groups <a href="#">A61K 36/07</a> and <a href="#">A61K 36/071</a> should be considered in order to perform a complete search.	36/235	. . . . Foeniculum (fennel)
		36/236	. . . . Ligisticum (licorice-root)
		36/237	. . . . Notopterygium
		36/238	. . . . Sapochnikovia
		36/24	. . . . Apocynaceae (Dogbane family), e.g. plumeria or periwinkle
		36/25	. . . . Araliaceae (Ginseng family), e.g. ivy, aralia, schefflera or tetrapanax
		36/254	. . . . Acanthopanax or Eleutherococcus
		36/258	. . . . Panax (ginseng)
		36/26	. . . . Aristolochiaceae (Birthwort family), e.g. heartleaf
		36/264	. . . . Aristolochia (Dutchman's pipe)
		36/268	. . . . Asarum (wild ginger)
		36/27	. . . . Asclepiadaceae (Milkweed family), e.g. hoyo
		36/28	. . . . Asteraceae or Compositae (Aster or Sunflower family), e.g. chamomile, feverfew, yarrow or echinacea
		36/282	. . . . Artemisia, e.g. wormwood or sagebrush
		36/284	. . . . Atractylodes
36/09	. Lichens		
36/10	. Bryophyta (mosses)		
36/11	. Pteridophyta or Filicophyta (ferns)		

36/285	. . . . . Aucklandia
36/286	. . . . . Carthamus (distaff thistle)
36/287	. . . . . Chrysanthemum, e.g. daisy
36/288	. . . . . Taraxacum (dandelion)
36/289	. . . . . Vladimiria
36/29	. . . . . Berberidaceae (Barberry family), e.g. barberry, cohosh or mayapple
36/296	. . . . . Epimedium
36/30	. . . . . Boraginaceae (Borage family), e.g. comfrey, lungwort or forget-me-not
36/31	. . . . . Brassicaceae or Cruciferae (Mustard family), e.g. broccoli, cabbage or kohlrabi
36/315	. . . . . Isatis, e.g. Dyer's woad
36/32	. . . . . Burseraceae (Frankincense family)
36/324	. . . . . Boswellia, e.g. frankincense
36/328	. . . . . Commiphora, e.g. mecca myrrh or balm of Gilead
36/33	. . . . . Cactaceae (Cactus family), e.g. pricklypear or Cereus
36/34	. . . . . Campanulaceae (Bellflower family)
36/342	. . . . . Adenophora
36/344	. . . . . Codonopsis
36/346	. . . . . Platycodon
36/348	. . . . . {Cannabaceae}

**WARNING**

Groups [A61K 36/348](#), [A61K 36/3482](#) and [A61K 36/3486](#) are incomplete pending reclassification of documents from groups [A61K 36/18](#) and [A61K 36/185](#).

All groups listed in this Warning should be considered in order to perform a complete search.

36/3482	. . . . . {Cannabis}
36/3486	. . . . . {Humulus}
36/35	. . . . . Caprifoliaceae (Honeysuckle family)
36/355	. . . . . Lonicera (honeysuckle)
36/36	. . . . . Caryophyllaceae (Pink family), e.g. babysbreath or soapwort
36/37	. . . . . Celastraceae (Staff-tree or Bittersweet family), e.g. tripterygium or spindletree
36/38	. . . . . Clusiaceae, Hypericaceae or Guttiferae (Hypericum or Mangosteen family), e.g. common St. Johnswort
36/39	. . . . . Convolvulaceae (Morning-glory family), e.g. bindweed
36/40	. . . . . Cornaceae (Dogwood family)
36/41	. . . . . Crassulaceae (Stonecrop family)
36/42	. . . . . Cucurbitaceae (Cucumber family)
36/424	. . . . . Gynostemma
36/428	. . . . . Trichosanthes
36/43	. . . . . Cuscutaceae (Dodder family), e.g. Cuscuta epithymum or greater dodder
36/44	. . . . . Ebenaceae (Ebony family), e.g. persimmon
36/45	. . . . . Ericaceae or Vacciniaceae (Heath or Blueberry family), e.g. blueberry, cranberry or bilberry
36/46	. . . . . Eucommiaceae (Eucommia family), e.g. hardy rubber tree
36/47	. . . . . Euphorbiaceae (Spurge family), e.g. Ricinus (castorbean)
36/48	. . . . . Fabaceae or Leguminosae (Pea or Legume family); Caesalpiniaceae; Mimosaceae; Papilionaceae

36/481	. . . . . Astragalus (milkvetch)
36/482	. . . . . Cassia, e.g. golden shower tree
36/483	. . . . . Gleditsia (locust)
36/484	. . . . . Glycyrrhiza (licorice)
36/485	. . . . . Gueldenstaedtia
36/486	. . . . . Millettia
36/487	. . . . . Psoralea
36/488	. . . . . Pueraria (kudzu)
36/489	. . . . . Sophora, e.g. necklacepod or mamani
36/49	. . . . . Fagaceae (Beech family), e.g. oak or chestnut
36/50	. . . . . Fumariaceae (Fumitory family), e.g. bleeding heart
36/505	. . . . . Corydalis
36/51	. . . . . Gentianaceae (Gentian family)
36/515	. . . . . Gentiana
36/52	. . . . . Juglandaceae (Walnut family)
36/53	. . . . . Lamiaceae or Labiateae (Mint family), e.g. thyme, rosemary or lavender
36/532	. . . . . Agastache, e.g. giant hyssop
36/533	. . . . . Leonurus (motherwort)
36/534	. . . . . Mentha (mint)
36/535	. . . . . Perilla (beefsteak plant)
36/536	. . . . . Prunella or Brunella (selfheal)
36/537	. . . . . Salvia (sage)
36/538	. . . . . Schizonepeta
36/539	. . . . . Scutellaria (skullcap)
36/54	. . . . . Lauraceae (Laurel family), e.g. cinnamon or sassafras
36/55	. . . . . Linaceae (Flax family), e.g. Linum
36/56	. . . . . Loganiaceae (Logania family), e.g. trumpetflower or pinkroot
36/57	. . . . . Magnoliaceae (Magnolia family)
36/575	. . . . . Magnolia
36/577	. . . . . {Malvaceae (Mallow family)}

**WARNING**

Groups [A61K 36/577](#), [A61K 36/5775](#) and [A61K 36/5777](#) are incomplete pending reclassification of documents from groups [A61K 36/18](#) and [A61K 36/185](#).

All groups listed in this Warning should be considered in order to perform a complete search.

36/5775	. . . . . {Hibiscus}
36/5777	. . . . . {Theobroma, e.g. cocoa or cocoa}
36/58	. . . . . Meliaceae (Chinaberry or Mahogany family), e.g. Azadirachta (neem)
36/59	. . . . . Menispermaceae (Moonseed family), e.g. hyperbaena or coralbead
36/60	. . . . . Moraceae (Mulberry family), e.g. breadfruit or fig
36/605	. . . . . Morus (mulberry)
36/61	. . . . . Myrtaceae (Myrtle family), e.g. teatree or eucalyptus
36/62	. . . . . Nymphaeaceae (Water-lily family)
36/63	. . . . . Oleaceae (Olive family), e.g. jasmine, lilac or ash tree
36/634	. . . . . Forsythia
36/638	. . . . . Ligustrum, e.g. Chinese privet
36/64	. . . . . Orobanchaceae (Broom-rape family)
36/65	. . . . . Paeoniaceae (Peony family), e.g. Chinese peony

36/66	... . Papaveraceae (Poppy family), e.g. bloodroot	36/81	... . Solanaceae (Potato family), e.g. tobacco, nightshade, tomato, belladonna, capsicum or jimsonweed
36/67	... . Piperaceae (Pepper family), e.g. Jamaican pepper or kava	36/815	... . Lycium (desert-thorn)
36/68	... . Plantaginaceae (Plantain Family)	36/82	... . Theaceae (Tea family), e.g. camellia
36/69	... . Polygalaceae (Milkwort family)	36/83	... . Thymelaeaceae (Mezereum family), e.g. leatherwood or false ohelo
36/70	... . Polygonaceae (Buckwheat family), e.g. spineflower or dock	36/835	... . Aquilaria
36/704	... . . Polygonum, e.g. knotweed	36/84	... . Valerianaceae (Valerian family), e.g. valerian
36/708	... . . Rheum (rhubarb)	36/85	... . Verbenaceae (Verbena family)
36/71	... . Ranunculaceae (Buttercup family), e.g. larkspur, hepatica, hydrastis, columbine or goldenseal	36/855	... . . Clerodendrum, e.g. glorybower
36/714	... . . Aconitum (monkshood)	36/86	... . . Violaceae (Violet family)
36/716	... . . Clematis (leather flower)	36/87	... . . Vitaceae or Ampelidaceae (Vine or Grape family), e.g. wine grapes, muscadine or peppervine
36/718	... . . Coptis (goldthread)	36/88	... . . Liliopsida (monocotyledons)
36/72	... . . Rhamnaceae (Buckthorn family), e.g. buckthorn, chewstick or umbrella-tree	36/882	... . . Acoraceae (Calamus family), e.g. sweetflag or Acorus calamus
36/725	... . . Ziziphus, e.g. jujube	36/884	... . . Alismataceae (Water-plantain family)
36/73	... . . Rosaceae (Rose family), e.g. strawberry, chokeberry, blackberry, pear or firethorn	36/886	... . . Aloaceae (Aloe family), e.g. aloe vera
36/732	... . . Chaenomeles, e.g. flowering quince	36/888	... . . Araceae (Arum family), e.g. caladium, calla lily or skunk cabbage
36/734	... . . Crataegus (hawthorn)	36/884	... . . Arisaema, e.g. Jack in the pulpit
36/736	... . . Prunus, e.g. plum, cherry, peach, apricot or almond	36/888	... . . Pinellia
36/738	... . . Rosa (rose)	36/889	... . . Arecaceae, Palmae or Palmaceae (Palm family), e.g. date or coconut palm or palmetto
36/739	... . . Sanguisorba (burnet)	36/895	... . . Calamus, e.g. rattan
36/74	... . . Rubiaceae (Madder family)	36/89	... . . Cyperaceae (Sedge family)

**WARNING**

Group [A61K 36/74](#) is impacted by reclassification into group [A61K 36/742](#). Groups [A61K 36/74](#) and [A61K 36/742](#) should be considered in order to perform a complete search.

36/742	... . . {Coffea, e.g. coffee}
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**WARNING**

Group [A61K 36/742](#) is incomplete pending reclassification of documents from groups [A61K 36/18](#), [A61K 36/185](#) and [A61K 36/74](#).

All groups listed in this Warning should be considered in order to perform a complete search.

36/744	... . . Gardenia
36/746	... . . Morinda
36/748	... . . Oldenlandia or Hedyotis
36/75	... . . Rutaceae (Rue family)
36/752	... . . Citrus, e.g. lime, orange or lemon
36/754	... . . Evodia
36/756	... . . Phellodendron, e.g. corktree
36/758	... . . Zanthoxylum, e.g. pricklyash
36/76	... . . Salicaceae (Willow family), e.g. poplar
36/77	... . . Sapindaceae (Soapberry family), e.g. lychee or soapberry
36/78	... . . Saururaceae (Lizard's-tail family)
36/79	... . . Schisandraceae (Schisandra family)
36/80	... . . Scrophulariaceae (Figwort family)
36/804	... . . Rehmannia
36/808	... . . Scrophularia (figwort)

36/81	... . . Solanaceae (Potato family), e.g. tobacco, nightshade, tomato, belladonna, capsicum or jimsonweed
36/815	... . . Lycium (desert-thorn)
36/82	... . . Theaceae (Tea family), e.g. camellia
36/83	... . . Thymelaeaceae (Mezereum family), e.g. leatherwood or false ohelo
36/835	... . . Aquilaria
36/84	... . . Valerianaceae (Valerian family), e.g. valerian
36/85	... . . Verbenaceae (Verbena family)
36/855	... . . Clerodendrum, e.g. glorybower
36/86	... . . Violaceae (Violet family)
36/87	... . . Vitaceae or Ampelidaceae (Vine or Grape family), e.g. wine grapes, muscadine or peppervine
36/88	... . . Liliopsida (monocotyledons)
36/882	... . . Acoraceae (Calamus family), e.g. sweetflag or Acorus calamus
36/884	... . . Alismataceae (Water-plantain family)
36/886	... . . Aloaceae (Aloe family), e.g. aloe vera
36/888	... . . Araceae (Arum family), e.g. caladium, calla lily or skunk cabbage
36/884	... . . Arisaema, e.g. Jack in the pulpit
36/888	... . . Pinellia
36/889	... . . Arecaceae, Palmae or Palmaceae (Palm family), e.g. date or coconut palm or palmetto
36/895	... . . Calamus, e.g. rattan
36/89	... . . Cyperaceae (Sedge family)
36/8905	... . . Cyperus (flatsedge)
36/894	... . . Dioscoreaceae (Yam family)
36/8945	... . . Dioscorea, e.g. yam, Chinese yam or water yam
36/896	... . . Liliaceae (Lily family), e.g. daylily, plantain lily, Hyacinth or narcissus
36/8962	... . . Allium, e.g. garden onion, leek, garlic or chives
36/8964	... . . Anemarrhena
36/8965	... . . Asparagus, e.g. garden asparagus or asparagus fern
36/8966	... . . Fritillaria, e.g. checker lily or mission bells
36/8967	... . . Lilium, e.g. tiger lily or Easter lily
36/8968	... . . Ophiopogon (Lilyturf)
36/8969	... . . Polygonatum (Solomon's seal)
36/898	... . . Orchidaceae (Orchid family)
36/8984	... . . Dendrobium
36/8988	... . . Gastrodia
36/899	... . . Poaceae or Gramineae (Grass family), e.g. bamboo, corn or sugar cane
36/8994	... . . Coix (Job's tears)
36/8998	... . . Hordeum (barley)
36/90	... . . Smilacaceae (Catbrier family), e.g. greenbrier or sarsaparilla
36/902	... . . Sparganiaceae (Bur-reed family)
36/904	... . . Stemonaceae (Stemonia family), e.g. croomia
36/906	... . . Zingiberaceae (Ginger family)
36/9062	... . . Alpinia, e.g. red ginger or galangal
36/9064	... . . Amomum, e.g. round cardamom
36/9066	... . . Curcuma, e.g. common turmeric, East Indian arrowroot or mango ginger
36/9068	... . . Zingiber, e.g. garden ginger

<p><b>38/00 Medicinal preparations containing peptides (peptides containing beta-lactam rings A61K 31/00; cyclic dipeptides not having in their molecule any other peptide link than those which form their ring, e.g. piperazine-2,5-diones, A61K 31/00; ergot alkaloids of the cyclic peptide type A61K 31/48; containing macromolecular compounds having statistically distributed amino acid units A61K 31/74; medicinal preparations containing antigens or antibodies A61K 39/00; medicinal preparations characterised by the non-active ingredients, e.g. peptides as drug carriers, A61K 47/00)</b></p> <p><b>NOTES</b></p> <ol style="list-style-type: none"> <li>1. The terms or expressions used in this group follow exactly the definitions given in Note (1) following the title of subclass C07K.</li> <li>2. Preparations containing fragments of peptides or peptides modified by removal or addition of amino acids, by substitution of amino acids by others, or by combination of these modifications are classified as the preparations containing parent peptides. However, preparations containing fragments of peptides having only four or less amino acids are also classified in groups A61K 38/05 - A61K 38/07.</li> <li>3. Preparations containing peptides prepared by recombinant DNA technology are not classified according to the host, but according to the original peptide expressed, e.g. preparations containing HIV peptide expressed in E. coli are classified with the preparations containing HIV peptides.</li> <li>4. This group covers also medicinal preparation containing DNA or RNA encoding for peptides as active ingredient.</li> <li>5. Documents relating to new peptides, e.g. enzymes, or new DNA or RNA encoding for peptides and their use in medicinal preparations are classified in subclass C07K or in group C12N 9/00 according to the peptides, with the appropriate indexing codes relating to their medical uses.</li> </ol> <p>38/005 . {Enzyme inhibitors (protease inhibitors A61K 38/55)}</p> <p>38/01 . Hydrolysed proteins; Derivatives thereof</p> <p>38/011 . . {from plants}</p> <p>38/012 . . {from animals}</p> <p>38/014 . . . {from connective tissue peptides, e.g. gelatin, collagen}</p> <p>38/015 . . . . {from keratin}</p> <p>38/017 . . . {from blood}</p> <p>38/018 . . . {from milk}</p> <p>38/02 . Peptides of undefined number of amino acids; Derivatives thereof</p> <p>38/03 . Peptides having up to 20 amino acids in an undefined or only partially defined sequence; Derivatives thereof</p> <p>38/04 . Peptides having up to 20 amino acids in a fully defined sequence; Derivatives thereof ({enzyme inhibitors A61K 38/005;} gastrins {A61K 38/2207}, somatostatins A61K 38/31, melanotropins A61K 38/34 {; protease inhibitors A61K 38/55})</p> <p>38/043 . . {Kallidins; Bradykinins; Related peptides}</p> <p>38/046 . . {Tachykinins, e.g. eledoisins, substance P; Related peptides}</p>	<p>38/05 . . Dipeptides</p> <p>38/06 . . Tripeptides</p> <p>38/063 . . . {Glutathione}</p> <p>38/066 . . . {TRH, thyroliberin, thyrotropin releasing hormone}</p> <p>38/07 . . . Tetrapeptides</p> <p>38/08 . . . Peptides having 5 to 11 amino acids { (A61K 38/043 - A61K 38/046 take precedence)}</p> <p>38/085 . . . . {Angiotensins}</p> <p>38/09 . . . . Luteinising hormone-releasing hormone [LHRH] {, i.e. Gonadotropin-releasing hormone [GnRH]}; Related peptides</p> <p>38/095 . . . . Oxytocins; Vasopressins; Related peptides</p> <p>38/10 . . . . Peptides having 12 to 20 amino acids { (A61K 38/043 - A61K 38/046 take precedence)}</p> <p>38/105 . . . . {Bombesin; Related peptides}</p> <p>38/12 . . . . Cyclic peptides {, e.g. bacitracins; Polymyxins; Gramicidins S, C; Tyrocidins A, B or C (A61K 38/043 - A61K 38/046 take precedence)}</p> <p>38/13 . . . . Cyclosporins</p> <p>38/14 . . . . Peptides containing saccharide radicals; Derivatives thereof {, e.g. bleomycin, phleomycin, muramylpeptides or vancomycin}</p> <p>38/15 . . . . Depsipeptides; Derivatives thereof</p> <p>38/16 . . . . Peptides having more than 20 amino acids; Gastrins; Somatostatins; Melanotropins; Derivatives thereof { (enzyme inhibitors A61K 38/005)}</p> <p>38/162 . . . . {from virus}</p> <p>38/164 . . . . {from bacteria}</p> <p>38/166 . . . . . {Streptokinase}</p> <p>38/168 . . . . . {from plants}</p> <p>38/17 . . . . from animals; from humans { (enzyme inhibitors A61K 38/005)}</p> <p>38/1703 . . . . {from vertebrates}</p> <p>38/1706 . . . . {from fish}</p> <p>38/1709 . . . . {from mammals}</p> <p>38/1716 . . . . . {Amyloid plaque core protein}</p> <p>38/1719 . . . . . {Muscle proteins, e.g. myosin or actin}</p> <p>38/1722 . . . . . {Plasma globulins, lactoglobulins}</p> <p>38/1725 . . . . . {Complement proteins, e.g. anaphylatoxin, C3a or C5a}</p> <p>38/1729 . . . . . {Cationic antimicrobial peptides, e.g. defensins}</p> <p>38/1732 . . . . . {Lectins}</p> <p>38/1735 . . . . . {Mucins, e.g. human intestinal mucin}</p> <p>38/1738 . . . . . {Calcium binding proteins, e.g. calmodulin}</p> <p>38/1741 . . . . . {alpha-Glycoproteins}</p> <p>38/1745 . . . . . {C-reactive proteins}</p> <p>38/1748 . . . . . {Keratin; Cytokeratin}</p> <p>38/1751 . . . . . {Bactericidal/permeability-increasing protein [BPI]}</p> <p>38/1754 . . . . . {Insulin-like growth factor binding proteins}</p> <p>38/1758 . . . . . {p53}</p> <p>38/1761 . . . . . {Apoptosis related proteins, e.g. Apoptotic protease-activating factor-1 (APAF-1), Bax, Bax-inhibitory protein(s)(BI; bax-I), Myeloid cell leukemia associated protein (MCL-1), Inhibitor of apoptosis [IAP] or Bcl-2}</p> <p>38/1767 . . . . {from invertebrates}</p>
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38/177	... . {Receptors; Cell surface antigens; Cell surface determinants}	38/22	... . Hormones (derived from pro-opiomelanocortin, pro-enkephalin or pro-dynorphin A61K 38/33, e.g. corticotropin A61K 38/35)
38/1774	... . . {Immunoglobulin superfamily (e.g. CD2, CD4, CD8, ICAM molecules, B7 molecules, Fc-receptors, MHC-molecules)}	38/2207	... . . {Gastrins; Cholecystokinins [CCK]}
38/1777	... . . {Integrin superfamily}	38/2214	... . . {Motilins}
38/178	... . . {Lectin superfamily, e.g. selectins}	38/2221	... . . {Relaxins}
38/1783	... . . {Nuclear receptors, e.g. retinoic acid receptor [RAR], RXR, nuclear orphan receptors}	38/2228	... . . {Corticotropin releasing factor [CRF] (Urotensin)}
38/1787	... . . {for neuromediators, e.g. serotonin receptor, dopamine receptor}	38/2235	... . . {Secretins}
38/179	... . . {for growth factors; for growth regulators}	38/2242	... . . {Atrial natriuretic factor complex: Atriopeptins, atrial natriuretic protein [ANP]; Cardionatrin, Cardiodilatin}
38/1793	... . . {for cytokines; for lymphokines; for interferons}	38/225	... . . {Calcitonin gene related peptide}
38/1796	... . . {for hormones (for neuromediators A61K 38/1787)}	38/2257	... . . {Prolactin}
38/18	... . Growth factors; Growth regulators	38/2264	... . . {Obesity-gene products, e.g. leptin}
38/1808	... . . {Epidermal growth factor [EGF] urogastrone}	38/2271	... . . {Neuropeptide Y}
38/1816	... . . {Erythropoietin [EPO]}	38/2278	... . . {Vasoactive intestinal peptide [VIP]; Related peptides (e.g. Exendin)}
38/1825	... . . {Fibroblast growth factor [FGF]}	38/2285	... . . {Endothelin, vasoactive intestinal contractor [VIC]}
38/1833	... . . {Hepatocyte growth factor; Scatter factor; Tumor cytotoxic factor II}	38/2292	... . . {Thymosin; Related peptides}
38/1841	... . . {Transforming growth factor [TGF]}	38/23	... . . Calcitonins
38/185	... . . {Nerve growth factor [NGF]; Brain derived neurotrophic factor [BDNF]; Ciliary neurotrophic factor [CNTF]; Glial derived neurotrophic factor [GDNF]; Neurotrophins, e.g. NT-3}	38/24	... . . Follicle-stimulating hormone [FSH]; Chorionic gonadotropins, e.g. HCG; Luteinising hormone [LH]; Thyroid-stimulating hormone [TSH]
38/1858	... . . {Platelet-derived growth factor [PDGF]}	38/25	... . . Growth hormone-releasing factor [GH-RF], i.e. somatotropin
38/1866	... . . {Vascular endothelial growth factor [VEGF]}	38/26	... . . Glucagons
38/1875	... . . {Bone morphogenic factor; Osteogenins; Osteogenic factor; Bone-inducing factor}	38/27	... . . Growth hormone [GH], i.e. somatotropin
38/1883	... . . {Neuregulins, e.g.. p185erbB2 ligands, glial growth factor, heregulin, ARIA, neu differentiation factor}	38/28	... . . Insulins
38/1891	... . . {Angiogenesis factors; Angiogenin}	38/29	... . . Parathyroid hormone, i.e. parathormone; Parathyroid hormone-related peptides
38/19	... . Cytokines; Lymphokines; Interferons	38/30	... . . Insulin-like growth factors, i.e. somatomedins, e.g. IGF-1, IGF-2 { <a href="#">(insulin-like growth factor binding protein A61K 38/1754)</a> }
38/191	... . . {Tumor necrosis factors [TNF], e.g. lymphotoxin [LT], i.e. TNF-beta}	38/31	... . . Somatostatins
38/193	... . . {Colony stimulating factors [CSF]}	38/32	... . . Thymopoietins
38/195	... . . {Chemokines, e.g. RANTES}	38/33	... . . derived from pro-opiomelanocortin, pro-enkephalin or pro-dynorphin
38/196	... . . {Thrombopoietin}	38/34	... . . Melanocyte stimulating hormone [MSH], e.g. alpha- or beta-melanotropin
38/20	... . . Interleukins [IL]	38/35	... . . Corticotropin [ACTH]
38/2006	... . . . {IL-1}	38/36	... . . Blood coagulation or fibrinolysis factors
38/2013	... . . . {IL-2}	38/363	... . . . {Fibrinogen}
38/202	... . . . {IL-3}	38/366	... . . . {Thrombomodulin}
38/2026	... . . . {IL-4}	38/37	... . . Factors VIII
38/2033	... . . . {IL-5}	38/38	... . . Albumins
38/204	... . . . {IL-6}	38/385	... . . . {Serum albumin}
38/2046	... . . . {IL-7}	38/39	... . . Connective tissue peptides, e.g. collagen, elastin, laminin, fibronectin, vitronectin, cold insoluble globulin [CIG]
38/2053	... . . . {IL-8}	38/395	... . . {Alveolar surfactant peptides; Pulmonary surfactant peptides}
38/206	... . . . {IL-9}	38/40	... . . Transferrins, e.g. lactoferrins, ovotransferrins
38/2066	... . . . {IL-10}	38/41	... . . Porphyrin- or corrin-ring-containing peptides
38/2073	... . . . {IL-11}	38/415	... . . . {Cytochromes}
38/208	... . . . {IL-12}	38/42	... . . Haemoglobins; Myoglobins
38/2086	... . . . {IL-13 to IL-16}	38/43	... . . Enzymes; Proenzymes; Derivatives thereof
38/2093	... . . . {Leukaemia inhibitory factor [LIF]}		<b>NOTE</b>
38/21	... . . Interferons {[IFN]}		In this group,
38/212	... . . . {IFN-alpha}		
38/215	... . . . {IFN-beta}		
38/217	... . . . {IFN-gamma}		

	1. proenzymes are classified with the corresponding enzymes;	39/00	<b>Medicinal preparations containing antigens or antibodies</b> ( <a href="#">materials for immunoassay G01N 33/53</a> )
<b>NOTES</b>			
	2. enzymes are generally categorised according to the "Nomenclature and Classification of Enzymes" of the International Commission of Enzymes. Where appropriate, this designation appears in the subgroups below in parenthesis.	1. Groups <a href="#">A61K 39/002</a> - <a href="#">A61K 39/295</a> cover preparations containing protozoa, bacteria, viruses, or subunits thereof, e.g. membrane parts.	
	3. the specific enzyme(s) used are additionally classified in <a href="#">C12Y</a> .	2. Preparation of antigen or antibody compositions is also classified in subclass <a href="#">C12N</a> , if the step of cultivating the microorganism is of interest.	
38/44	... . Oxidoreductases (1)	3. Documents relating to new peptides, e.g. enzymes, or new DNA or RNA encoding for peptides and their use in medicinal preparations are classified in subclass <a href="#">C07K</a> or in group <a href="#">C12N 9/00</a> according to the peptides, with the appropriate indexing codes relating to their medical uses.	
38/443	... . . {acting on CH-OH groups as donors, e.g. glucose oxidase, lactate dehydrogenase (1.1)}	4. Documents relating to antibodies or DNA or RNA encoding for antibodies and their use in medicinal preparations are classified in group <a href="#">C07K 16/00</a> or in group <a href="#">C12N 9/0002</a> according to the antibodies, with the appropriate indexing codes relating to their medical uses.	
38/446	... . . {Superoxide dismutase (1.15)}	5. Documents relating to new therapeutical uses of antibodies or DNA or RNA encoding for antibodies are classified in group <a href="#">C07K 16/00</a> or in group <a href="#">C12N 9/0002</a> according to the antibodies, with the appropriate indexing codes relating to their medical uses.	
38/45	... . Transferases (2)	6. Documents relating to medicinal preparations containing different antibodies as active ingredients are classified in group <a href="#">C07K 16/00</a> according to the different active antibodies, with the appropriate indexing codes relating to their medical uses. However, documents relating to medicinal preparations containing antibodies and other compounds as active ingredients are classified in groups <a href="#">A61K 39/395</a> - <a href="#">A61K 39/42</a> , in association with symbol <a href="#">A61K 2300/00</a> in Combination Sets.	
38/46	... . Hydrolases (3)		
38/465	... . . {acting on ester bonds (3.1), e.g. lipases, ribonucleases}		
38/47	... . . . acting on glycosyl compounds (3.2), e.g. cellulases, lactases		
38/48	... . . . acting on peptide bonds (3.4)		
38/4806	... . . . . {from animals other than mammals, e.g. snakes}		
38/4813	... . . . . {Exopeptidases (3.4.11. to 3.4.19)}		
38/482	... . . . . {Serine endopeptidases (3.4.21)}		
38/4826	... . . . . . {Trypsin (3.4.21.4) Chymotrypsin (3.4.21.1)}		
38/4833	... . . . . . {Thrombin (3.4.21.5)}		
38/484	... . . . . . {Plasmin (3.4.21.7)}		
38/4846	... . . . . . {Factor VII (3.4.21.21); Factor IX (3.4.21.22); Factor Xa (3.4.21.6); Factor XI (3.4.21.27); Factor XII (3.4.21.38)}		
38/4853	... . . . . . {Kallikrein (3.4.21.34 or 3.4.21.35)}		
38/486	... . . . . . {Elastase (3.4.21.36 or 3.4.21.37)}		
38/4866	... . . . . . {Protein C (3.4.21.69)}		
38/4873	... . . . . . {Cysteine endopeptidases (3.4.22), e.g. stem bromelain, papain, ficin, cathepsin H}		
38/488	... . . . . . {Aspartic endopeptidases (3.4.23), e.g. pepsin, chymosin, renin, cathepsin E}		
38/4886	... . . . . . {Metalloendopeptidases (3.4.24), e.g. collagenase}		
38/4893	... . . . . . {Botulinum neurotoxin (3.4.24.69)}		
38/49	... . . . . Urokinase; Tissue plasminogen activator		
38/50	... . . . . acting on carbon-nitrogen bonds, other than peptide bonds (3.5), e.g. asparaginase		
38/51	... . . Lyases (4)		
38/52	... . . Isomerasases (5)		
38/53	... . . Ligases (6)		
38/54	... . Mixtures of enzymes or proenzymes covered by more than a single one of groups <a href="#">A61K 38/44</a> - <a href="#">A61K 38/46</a> or <a href="#">A61K 38/51</a> - <a href="#">A61K 38/53</a>		
38/55	... . Protease inhibitors		
38/553	... . . {Renin inhibitors}	39/0001 . . . {Archaeal antigens}	
38/556	... . . {Angiotensin converting enzyme inhibitors}	39/0002 . . . {Fungal antigens, e.g. Trichophyton, Aspergillus, Candida}	
38/56	... . . from plants	39/0003 . . . {Invertebrate antigens}	
38/57	... . . from animals; from humans { <a href="#">(A61K 38/553, A61K 38/556 take precedence)</a> }	39/0005 . . . {Vertebrate antigens (from snakes <a href="#">A61K 39/38</a> )}	
38/58	... . . . from leeches, e.g. hirudin, eglin	39/0006 . . . . {Contraceptive vaccines; Vaccines against sex hormones}	
		39/0007 . . . . {Nervous system antigens; Prions}	
		39/0008 . . . . {Antigens related to auto-immune diseases; Preparations to induce self-tolerance}	
		39/001 . . . . {Preparations to induce tolerance to non-self, e.g. prior to transplantation}	
		39/0011 . . . . {Cancer antigens}	
		39/001102 . . . . {Receptors, cell surface antigens or cell surface determinants}	
		39/001103 . . . . {Receptors for growth factors}	
		39/001104 . . . . . {Epidermal growth factor receptors [EGFR]}	
		39/001106 . . . . . {Her-2/neu/ErbB2, Her-3/ErbB3 or Her 4/ErbB4}	
		39/001107 . . . . . {Fibroblast growth factor receptors [FGFR]}	
		39/001108 . . . . . {Platelet-derived growth factor receptors [PDGFR]}	

39/001109 . . . . {Vascular endothelial growth factor receptors [VEGFR]}	39/001169 . . . {Tumor associated carbohydrates}
39/00111 . . . . {Hepatocyte growth factor receptor [HGFR or c-met]}	39/00117 . . . . {Mucins, e.g. MUC-1}
39/001111 . . . . {Immunoglobulin superfamily}	39/001171 . . . . {Gangliosides, e.g. GM2, GD2 or GD3}
39/001112 . . . . {CD19 or B4}	39/001172 . . . . {Sialyl-Thomson-nouvelle antigen [sTn]}
39/001113 . . . . {CD22, BL-CAM, siglec-2 or sialic acid-binding Ig-related lectin 2}	39/001173 . . . . {Globo-H}
39/001114 . . . . {CD74, II, MHC class II invariant chain or MHC class II gamma chain}	39/001174 . . . . {Proteoglycans, e.g. glycan, brevican or CSPG4}
39/001116 . . . . {Receptors for cytokines}	39/001176 . . . . {Heat shock proteins}
39/001117 . . . . {Receptors for tumor necrosis factors [TNF], e.g. lymphotxin receptor [LTR] or CD30}	39/001178 . . . . {Tumor rejection antigen precursor [TRAP]}
39/001118 . . . . {Receptors for colony stimulating factors [CSF]}	39/00118 . . . . {from embryonic or fetal origin}
39/001119 . . . . {Receptors for interleukins [IL]}	39/001181 . . . . {Alpha-feto protein}
39/00112 . . . . {Receptors for interferons [IFN]}	39/001182 . . . . {Carcinoembryonic antigen [CEA]}
39/001121 . . . . {Receptors for chemokines}	39/001184 . . . . {Cancer testis antigens, e.g. SSX, BAGE, GAGE or SAGE}
39/001122 . . . . {Ephrin Receptors [Eph]}	39/001186 . . . . {MAGE}
39/001124 . . . . {CD20}	39/001188 . . . . {NY-ESO}
39/001126 . . . . {CD38 not IgG}	39/001189 . . . . {PRAME}
39/001128 . . . . {CD44 not IgG}	39/00119 . . . . {Melanoma antigens}
39/001129 . . . . {Molecules with a "CD" designation not provided for elsewhere}	39/001191 . . . . {Melan-A/MART}
39/00113 . . . . {Growth factors}	39/001192 . . . . {Glycoprotein 100 [Gp100]}
39/001131 . . . . {Epidermal growth factor [EGF]}	39/001193 . . . . {Prostate associated antigens e.g. Prostate stem cell antigen [PSCA]; Prostate carcinoma tumor antigen [PCTA]; PAP or PSGR}
39/001132 . . . . {Fibroblast growth factors [FGF]}	39/001194 . . . . {Prostate specific antigen [PSA]}
39/001133 . . . . {Platelet-derived growth factor [PDGF]}	39/001195 . . . . {Prostate specific membrane antigen [PSMA]}
39/001134 . . . . {Transforming growth factor [TGF]}	39/001196 . . . . {Fusion proteins originating from gene translocation in cancer cells}
39/001135 . . . . {Vascular endothelial growth factor [VEGF]}	39/001197 . . . . {Breakpoint cluster region-abelson tyrosine kinase [BCR-ABL]}
39/001136 . . . . {Cytokines}	39/001198 . . . . {Pml-RARalpha}
39/001138 . . . . {Tumor necrosis factors [TNF] or CD70}	39/0012 . . . . {Lipids; Lipoproteins}
39/001139 . . . . {Colony stimulating factors [CSF]}	39/0013 . . . . {Therapeutic immunisation against small organic molecules, e.g. cocaine, nicotine}
39/00114 . . . . {Interleukins [IL]}	39/0015 . . . . {Combination vaccines based on measles-mumps-rubella}
39/001141 . . . . {Interferons [IFN]}	39/0016 . . . . {Combination vaccines based on diphtheria-tetanus-pertussis}
39/001142 . . . . {Chemokines}	39/0017 . . . . {Combination vaccines based on whole cell diphtheria-tetanus-pertussis}
39/001144 . . . . {Hormones, e.g. calcitonin}	39/0018 . . . . {Combination vaccines based on acellular diphtheria-tetanus-pertussis}
39/001148 . . . . {Regulators of development}	39/002 . . . . Protozoa antigens
39/001149 . . . . {Cell cycle regulated proteins, e.g. cyclin, CDC, CDK or INK-CCR}	39/005 . . . . Trypanosoma antigens
39/00115 . . . . {Apoptosis related proteins, e.g. survivin or livin}	39/008 . . . . Leishmania antigens
39/001151 . . . . {p53}	39/012 . . . . Coccidia antigens
39/001152 . . . . {Transcription factors, e.g. SOX or c-MYC}	39/015 . . . . Hemosporidia antigens, e.g. Plasmodium antigens
39/001153 . . . . {Wilms tumor 1 [WT1]}	39/018 . . . . Babesia antigens, e.g. Theileria antigens
39/001154 . . . . {Enzymes}	39/02 . . . . Bacterial antigens
39/001156 . . . . {Tyrosinase and tyrosinase related proteinases [TRP-1 or TRP-2]}	39/0208 . . . . {Specific bacteria not otherwise provided for}
39/001157 . . . . {Telomerase or TERT [telomerase reverse transcriptase]}	39/0216 . . . . {Bacteriodes, e.g. Bacteroides, Ornithobacter, Porphyromonas}
39/001158 . . . . {Proteinases}	39/0225 . . . . {Spirochetes, e.g. Treponema, Leptospira, Borrelia}
39/001159 . . . . {Matrix metalloproteinases [MMP]}	39/0233 . . . . {Rickettsiales, e.g. Anaplasma}
39/00116 . . . . {Serine proteases, e.g. kallikrein}	39/0241 . . . . {Mollicutes, e.g. Mycoplasma, Erysipelothrix}
39/001161 . . . . {Caspases}	39/025 . . . . {Enterobacteriales, e.g. Enterobacter}
39/001162 . . . . {Kinases, e.g. Raf or Src}	39/0258 . . . . {Escherichia}
39/001163 . . . . {Phosphatases}	39/0266 . . . . {Klebsiella}
39/001164 . . . . {GTPases, e.g. Ras or Rho}	39/0275 . . . . {Salmonella}
39/001166 . . . . {Adhesion molecules, e.g. NRCAM, EpCAM or cadherins}	39/0283 . . . . {Shigella}
39/001168 . . . . {Mesothelin [MSLN]}	39/0291 . . . . {Yersinia}

39/04	. . . Mycobacterium, e.g. <i>Mycobacterium tuberculosis</i>	39/295	. . . Polyvalent viral antigens ( <a href="#">vaccinia virus</a> or <a href="#">variola virus A61K 39/285</a> ); Mixtures of viral and bacterial antigens
39/05	. . . {Actinobacteria, e.g. <i>Actinomyces</i> , <i>Streptomyces</i> , <i>Nocardia</i> , <i>Bifidobacterium</i> , <i>Gardnerella</i> }, <i>Corynebacterium</i> ; <i>Propionibacterium</i> { <a href="#">(Mycobacterium A61K 39/04)</a> }	39/35	. Allergens
39/07	. . . <i>Bacillus</i>	39/36	. . . from pollen
39/08	. . . <i>Clostridium</i> , e.g. <i>Clostridium tetani</i>	39/38	. Antigens from snakes
39/085	. . . <i>Staphylococcus</i>	39/385	. Haptens or antigens, bound to carriers
39/09	. . . {Lactobacillales, e.g. <i>aerococcus</i> , <i>enterococcus</i> , <i>lactobacillus</i> , <i>lactococcus</i> }, <i>streptococcus</i>	39/39	. characterised by the immunostimulating additives, e.g. chemical adjuvants
39/092	. . . . { <i>Streptococcus</i> }	39/395	. Antibodies ( <a href="#">agglutinins A61K 38/36</a> {; as drug carriers <a href="#">A61K 47/50</a> }); Immunoglobulins; Immune serum, e.g. antilymphocytic serum
39/095	. . . <i>Neisseria</i>	39/39508	. . . {from milk, i.e. lactoglobulins}
39/098	. . . { <i>Brucella</i> }	39/39516	. . . {from serum, plasma}
39/099	. . . { <i>Bordetella</i> }	39/39525	. . . . {Purification}
2039/10	. . . { <i>Brucella</i> ; <i>Bordetella</i> , e.g. <i>Bordetella pertussis</i> ; Not used, see subgroups}	39/39533	. . . . {against materials from animals}
39/102	. . . { <i>Pasteurellales</i> , e.g. <i>Actinobacillus</i> }, <i>Pasteurella</i> ; <i>Haemophilus</i>	39/39541	. . . . {against normal tissues, cells}
39/104	. . . { <i>Pseudomonadales</i> , e.g.} <i>Pseudomonas</i>	39/3955	. . . . {against proteinaceous materials, e.g. enzymes, hormones, lymphokines}
39/1045	. . . . { <i>Moraxella</i> }	39/39558	. . . . {against tumor tissues, cells, antigens}
39/105	. . . { <i>Delta proteobacterales</i> , e.g. <i>Lawsonia</i> ; <i>Epsilon proteobacterales</i> , e.g. <i>campylobacter</i> , <i>helicobacter</i> }	39/39566	. . . . {against immunoglobulins, e.g. anti-idiotypic antibodies}
2039/106	. . . { <i>Vibrio</i> ; <i>Campylobacter</i> ; Not used, see subgroups}	39/39575	. . . . {against materials from other living beings excluding bacteria and viruses, e.g. protozoa, fungi, plants}
39/107	. . . { <i>Vibrio</i> }	39/39583	. . . . {against materials not provided for elsewhere, e.g. haptens, coenzymes}
39/114	. . . <i>Fusobacterium</i>	39/39591	. . . . {Stabilisation, fragmentation}
39/116	. . . Polyvalent bacterial antigens	39/40	. . . bacterial
39/118	. . . <i>Chlamydiaceae</i> , e.g. <i>Chlamydia trachomatis</i> or <i>Chlamydia psittaci</i>	39/42	. . . viral
39/12	. . . Viral antigens	39/44	. . . Antibodies bound to carriers
39/125	. . . <i>Picornaviridae</i> , e.g. <i>calicivirus</i>	2039/505	. . . . {comprising antibodies}
39/13	. . . . <i>Poliovirus</i>	2039/507	. . . . {Comprising a combination of two or more separate antibodies}
39/135	. . . . Foot- and mouth-disease virus	2039/51	. . . . {comprising whole cells, viruses or DNA/RNA}
39/145	. . . . <i>Orthomyxoviridae</i> , e.g. <i>influenza virus</i>	2039/515	. . . . {Animal cells}
39/15	. . . . <i>Reoviridae</i> , e.g. <i>calf diarrhea virus</i>	2039/512	. . . . {Tumor cells}
39/155	. . . . <i>Paramyxoviridae</i> , e.g. <i>parainfluenza virus</i>	2039/514	. . . . {Antigen presenting cells [APCs], e.g. dendritic cells or macrophages}
39/165	. . . . <i>Mumps</i> or <i>measles virus</i>	2039/516	. . . . {expressing foreign proteins}
39/17	. . . . <i>Newcastle disease virus</i>	2039/518	. . . . {Antigen-pulsed cells, e.g. T-cells}
39/175	. . . . <i>Canine distemper virus</i>	2039/517	. . . . {Plant cells}
39/187	. . . . <i>Hog cholera virus</i>	2039/52	. . . . {Bacterial cells; Fungal cells; Protozoal cells}
39/193	. . . . <i>Equine encephalomyelitis virus</i>	2039/521	. . . . {inactivated (killed)}
39/20	. . . . <i>Rubella virus</i>	2039/522	. . . . {avirulent or attenuated}
39/205	. . . . <i>Rhabdoviridae</i> , e.g. <i>rabies virus</i>	2039/523	. . . . {expressing foreign proteins}
39/21	. . . . <i>Retroviridae</i> , e.g. <i>equine infectious anemia virus</i>	2039/525	. . . . {Virus}
39/215	. . . . <i>Coronaviridae</i> , e.g. <i>avian infectious bronchitis virus</i>	2039/522	. . . . {inactivated (killed)}
39/225	. . . . <i>Porcine transmissible gastroenteritis virus</i>	2039/524	. . . . {avirulent or attenuated}
39/23	. . . . <i>Parvoviridae</i> , e.g. <i>feline panleukopenia virus</i>	2039/526	. . . . {expressing foreign proteins}
39/235	. . . . <i>Adenoviridae</i>	2039/528	. . . . {Virus-like particles}
39/245	. . . . <i>Herpetoviridae</i> , e.g. <i>herpes simplex virus</i>	2039/53	. . . . {DNA (RNA) vaccination}
39/25	. . . . <i>Varicella-zoster virus</i>	2039/54	. . . . {characterised by the route of administration}
39/255	. . . . <i>Marek's disease virus</i>	2039/541	. . . . {Mucosal route}
39/265	. . . . <i>Infectious rhinotracheitis virus</i>	2039/542	. . . . {oral/gastrointestinal}
39/27	. . . . <i>Equine rhinopneumonitis virus</i>	2039/543	. . . . {intranasal}
39/275	. . . . <i>Poxviridae</i> , e.g. <i>avipoxvirus</i>	2039/544	. . . . {to the airways}
39/285	. . . . <i>Vaccinia virus</i> or <i>variola virus</i>	2039/545	. . . . {characterised by the dose, timing or administration schedule}
39/29	. . . . <i>Hepatitis virus</i>	2039/55	. . . . {characterised by the host/recipient, e.g. newborn with maternal antibodies}
39/292	. . . . { <i>Serum hepatitis virus</i> , <i>hepatitis B virus</i> , e.g. <i>Australia antigen</i> }	2039/552	. . . . {Veterinary vaccine}

2039/555	. {characterised by a specific combination antigen/adjuvant}	2039/804	. . {Blood cells [leukemia, lymphoma]}
2039/55505	. . {Inorganic adjuvants}	2039/812	. . {Breast}
2039/55511	. . {Organic adjuvants}	2039/82	. . {Colon}
2039/55516	. . . {Proteins; Peptides}	2039/828	. . {Stomach}
2039/55522	. . . {Cytokines; Lymphokines; Interferons}	2039/836	. . {Intestine}
2039/55527	. . . . {Interleukins}	2039/844	. . {Liver}
2039/55533	. . . . {IL-2}	2039/852	. . {Pancreas}
2039/55538	. . . . {IL-12}	2039/86	. . {Lung}
2039/55544	. . . . {Bacterial toxins}	2039/868	. . {kidney}
2039/5555	. . . . {Muramyl dipeptides}	2039/876	. . {Skin, melanoma}
2039/55555	. . . . {Liposomes; Vesicles, e.g. nanoparticles; Spheres, e.g. nanospheres; Polymers}	2039/884	. . {prostate}
2039/55561	. . . . {CpG containing adjuvants; Oligonucleotide containing adjuvants}	2039/892	. . {Reproductive system [uterus, ovaries, cervix, testes]}
2039/55566	. . . . {Emulsions, e.g. Freund's adjuvant, MF59}		
2039/55572	. . . . {Lipoproteins; Lipid A; Monophosphoryl lipid A}		
2039/55577	. . . . {Saponins; Quil A; QS21; ISCOMS}		
2039/55583	. . . . {Polysaccharides}		
2039/55588	. . . . {Adjuvants of undefined constitution}		
2039/55594	. . . . {from bacteria}		
2039/57	. {characterised by the type of response, e.g. Th1, Th2}		
2039/572	. . {cytotoxic response}	40/10	. characterised by the cell type used
2039/575	. . {humoral response}	40/11	. . T-cells, e.g. tumour infiltrating lymphocytes [TIL] or regulatory T [Treg] cells; Lymphokine-activated killer [LAK] cells
2039/577	. . {tolerising response}	40/13	. . B-cells
2039/58	. {raising an immune response against a target which is not the antigen used for immunisation}	40/15	. . Natural-killer [NK] cells; Natural-killer T [NKT] cells
2039/585	. . {wherein the target is cancer}	40/17	. . Monocytes; Macrophages
2039/60	. {characteristics by the carrier linked to the antigen}	40/19	. . Dendritic cells
2039/6006	. . {Cells}	40/20	. characterised by the effect or the function of the cells
2039/6012	. . {Haptens, e.g. di- or trinitrophenyl (DNP, TNP)}	40/22	. . Immunosuppressive or immunotolerising
2039/6018	. . {Lipids, e.g. in lipopeptides}	40/24	. . Antigen-presenting cells [APC]
2039/6025	. . {Nucleotides}	40/30	. characterised by the recombinant expression of specific molecules in the cells of the immune system
2039/6031	. . {Proteins}	40/31	. . Chimeric antigen receptors [CAR]
2039/6037	. . . {Bacterial toxins, e.g. diphtheria toxoid [DT], tetanus toxoid [TT]}	40/32	. . T-cell receptors [TCR]
2039/6043	. . . {Heat shock proteins}	40/33	. . Antibodies; T-cell engagers
2039/605	. . . {MHC molecules or ligands thereof}	40/34	. . Antigenic peptides
2039/6056	. . . {Antibodies}	40/35	. . Cytokines
2039/6062	. . . {Muramyl peptides}	40/36	. . Immune checkpoint inhibitors
2039/6068	. . . {Other bacterial proteins, e.g. OMP}	40/40	. characterised by antigens that are targeted or presented by cells of the immune system
2039/6075	. . . {Viral proteins}	40/405	. . {Invertebrates antigens}
2039/6081	. . . {Albumin; Keyhole limpet haemocyanin [KLH]}	40/41	. . Vertebrate antigens
2039/6087	. . . {Polysaccharides; Lipopolysaccharides [LPS]}	40/412	. . . {Contraceptive or sex hormones}
2039/6093	. . . {Synthetic polymers, e.g. polyethyleneglycol [PEG], Polymers or copolymers of (D) glutamate and (D) lysine}	40/414	. . . {Nervous system antigens}
2039/62	. {characterised by the link between antigen and carrier}	40/416	. . . {Antigens related to auto-immune diseases; Preparations to induce self-tolerance}
2039/622	. . {non-covalent binding}	40/418	. . . {Antigens related to induction of tolerance to non-self}
2039/625	. . {binding through the biotin-streptavidin system or similar}	40/42	. . . Cancer antigens
2039/627	. . {characterised by the linker}	40/4201	. . . . {Neoantigens}
2039/64	. {characterised by the architecture of the carrier-antigen complex, e.g. repetition of carrier-antigen units}	40/4202	. . . . {Receptors, cell surface antigens or cell surface determinants}
2039/645	. . {Dendrimers; Multiple antigen peptides}		
2039/70	. . {Multivalent vaccine}		
2039/80	. . {Vaccine for a specifically defined cancer}		

40/4203	..... {Receptors for growth factors}	40/4249	..... {Serine proteases, e.g. kallikrein}
40/4204	..... {Epidermal growth factor receptors [EGFR]}	40/425	..... {Caspases}
40/4205	..... {Her-2/neu/ErbB2, Her-3/ErbB3 or Her 4/ ErbB4}	40/4251	..... {Kinases, e.g. Raf or Src}
40/4206	..... {Fibroblast growth factor receptors [FGFR]}	40/4252	..... {Phosphatases}
40/4207	..... {Platelet-derived growth factor receptors [PDGFR]}	40/4253	..... {GTPases, e.g. Ras or Rho}
40/4208	..... {Vascular endothelial growth factor receptors [VEGFR]}	40/4254	..... {Adhesion molecules, e.g. NRCAM, EpCAM or cadherins}
40/4209	..... {Hepatocyte growth factor receptor [HGFR] or c-met]}	40/4255	..... {Mesothelin [MSLN]}
40/421	..... {Immunoglobulin superfamily}	40/4256	..... {Tumor associated carbohydrates}
40/4211	..... {CD19 or B4}	40/4257	..... {Mucins, e.g. MUC-1}
40/4212	..... {CD22, BL-CAM, siglec-2 or sialic acid binding Ig-related lectin 2}	40/4258	..... {Gangliosides, e.g. GM2, GD2 or GD3}
40/4213	..... {CD74, II, MHC class II invariant chain or MHC class II gamma chain}	40/4259	..... {Sialyl-Thomson-nouvelle antigen [sTn]}
40/4214	..... {Receptors for cytokines}	40/426	..... {Globo-H}
40/4215	..... {Receptors for tumor necrosis factors [TNF], e.g. lymphotoxin receptor [LTR], CD30}	40/4261	..... {Proteoglycans, e.g. glycan, brevican or CSPG4}
40/4216	..... {Receptors for colony stimulating factors [CSF]}	40/4262	..... {Heat shock proteins}
40/4217	..... {Receptors for interleukins [IL]}	40/4263	..... {Tumor rejection antigen precursor [TRAP]}
40/4218	..... {Receptors for interferons [IFN]}	40/4264	..... {from embryonic or fetal origin}
40/4219	..... {Receptors for chemokines}	40/4265	..... {Alpha-feto protein}
40/422	..... {Ephrin Receptors [Eph]}	40/4266	..... {Carcinoembryonic antigen [CEA]}
40/4221	..... {CD20}	40/4267	..... {Cancer testis antigens, e.g. SSX, BAGE, GAGE or SAGE}
40/4222	..... {CD38 not IgG}	40/4268	..... {MAGE}
40/4223	..... {CD44 not IgG}	40/4269	..... {NY-ESO}
40/4224	..... {Molecules with a "CD" designation not provided for elsewhere}	40/427	..... {PRAME}
40/4225	..... {Growth factors}	40/4271	..... {Melanoma antigens}
40/4226	..... {Epidermal growth factor [EGF]}	40/4272	..... {Melan-A/MART}
40/4227	..... {Fibroblast growth factors [FGF]}	40/4273	..... {Glycoprotein 100 [Gp100]}
40/4228	..... {Platelet-derived growth factor [PDGF]}	40/4274	..... {Prostate associated antigens e.g. Prostate stem cell antigen [PSCA]; Prostate carcinoma tumor antigen [PCTA]; Prostatic acid phosphatase [PAP]; Prostate-specific G-protein-coupled receptor [PSGR]}
40/4229	..... {Transforming growth factor [TGF]}	40/4275	..... {Prostate specific antigen [PSA]}
40/423	..... {Vascular endothelial growth factor [VEGF]}	40/4276	..... {Prostate specific membrane antigen [PSMA]}
40/4231	..... {Cytokines}	40/4277	..... {Fusion proteins originating from gene translocation in cancer cells}
40/4232	..... {Tumor necrosis factors [TNF] or CD70}	40/4278	..... {Breakpoint cluster region-abelson tyrosine kinase [BCR-ABL]}
40/4233	..... {Colony stimulating factors [CSF]}	40/4279	..... {Pml-RARalpha}
40/4234	..... {Interleukins [IL]}	40/428	..... {Undefined tumor antigens, e.g. tumor lysate or antigens targeted by cells isolated from tumor}
40/4235	..... {Interferons [IFN]}	40/4285	..... {Lipids; Lipoproteins}
40/4236	..... {Chemokines}	40/429	..... {Small organic molecules e.g. cocaine or nicotine}
40/4237	..... {Hormones, e.g. calcitonin}	40/43	... Protozoan antigens
40/4238	..... {Regulators of development}	40/432	... {Trypanosoma antigens}
40/4239	..... {Cell cycle regulated proteins, e.g. cyclin, CDC, CDK or INK-CCR}	40/434	... {Leishmania antigens}
40/424	..... {Apoptosis related proteins, e.g. survivin or livin}	40/436	... {Coccidia antigens}
40/4241	..... {p53}	40/438	... {Hemosporidia antigens, e.g. Plasmodium antigens}
40/4242	..... {Transcription factors, e.g. SOX or c-MYC}	40/4385	... {Babesia antigens, e.g. Theileria antigens}
40/4243	..... {Wilms tumor 1 [WT1]}	40/44	... Fungal antigens
40/4244	..... {Enzymes}	40/45	... Bacterial antigens
40/4245	..... {Tyrosinase or tyrosinase related proteinases [TRP-1 or TRP-2]}	40/4512	... {Bacteriodetes, e.g. Bacteroides, Ornithobacter or Porphyromonas}
40/4246	..... {Telomerase or [telomerase reverse transcriptase [TERT]]}	40/4514	... {Spirochetes, e.g. Treponema, Leptospira or Borrelia}
40/4247	..... {Proteinases}	40/4516	... {Rickettsiales, e.g. Anaplasma}
40/4248	..... {Matrix metalloproteinases [MMP]}	40/4518	... {Mollicutes, e.g. Mycoplasma or Erysipelothrix}

40/452	... . {Enterobacteriales, e.g. Enterobacter}	41/0028	. {Disruption, e.g. by heat or ultrasounds, sonophysical or sonochemical activation, e.g. thermosensitive or heat-sensitive liposomes, disruption of calculi with a medicinal preparation and ultrasounds}
40/4522	... . . {Yersinia}	41/0033	. . {Sonodynamic cancer therapy with sonochemically active agents or sonosensitizers, having their cytotoxic effects enhanced through application of ultrasounds ( <a href="#">ultrasound therapy per se A61N 7/00</a> )}
40/4524	... . . {Mycobacterium, e.g. Mycobacterium tuberculosis}	41/0038	. {Radiosensitizing, i.e. administration of pharmaceutical agents that enhance the effect of radiotherapy ( <a href="#">radiotherapy per se A61N 5/10</a> )}
40/4526	... . . {Corynebacterium or Propionibacterium, Actinobacteria, e.g. Actinomyces, Streptomyces, Nocardia, Bifidobacterium or Gardnerella}	41/0042	. {Photocleavage of drugs <i>in vivo</i> , e.g. cleavage of photolabile linkers <i>in vivo</i> by UV radiation for releasing the pharmacologically-active agent from the administered agent; photothrombosis or photoocclusion}
40/4528	... . . {Bacillus}	41/0047	. {Sonopheresis, i.e. ultrasonically-enhanced transdermal delivery, electroporation of a pharmacologically active agent}
40/453	... . . {Clostridium, e.g. Clostridium tetani}		<b>NOTE</b>
40/4532	... . . {Staphylococcus}		{ To be classified in <a href="#">A61K 9/0009</a> when it is in relation to the galenic form. }
40/4534	... . . {Streptococcus}	41/0052	. {Thermotherapy; Hyperthermia; Magnetic induction; Induction heating therapy}
40/4536	... . . {Lactobacillales, e.g. aerococcus, enterococcus, lactobacillus or lactococcus}	41/0057	. {Photodynamic therapy with a photosensitizer, i.e. agent able to produce reactive oxygen species upon exposure to light or radiation, e.g. UV or visible light; photocleavage of nucleic acids with an agent}
40/4538	... . . {Neisseria}	41/0061	. . {5-aminolevulinic acid-based PDT: 5-ALA-PDT involving porphyrins or precursors of protoporphyrins generated <i>in vivo</i> from 5-ALA}
40/454	... . . {Brucella; Bordetella, e.g. Bordetella pertussis}	41/0066	. . {Psoralene-activated UV-A photochemotherapy (PUVA-therapy), e.g. for treatment of psoriasis or eczema, extracorporeal photopheresis with psoralens or fucocoumarins}
40/4542	... . . {Pasteurellales, e.g. Actinobacillus, Pasteurella; Haemophilus}	41/0071	. . {PDT with porphyrins having exactly 20 ring atoms, i.e. based on the non-expanded tetrapyrrolic ring system, e.g. bacteriochlorin, chlorin-e6, or phthalocyanines}
40/4544	... . . {Pseudomonadales, e.g. Pseudomonas}	41/0076	. . {PDT with expanded (metallo)porphyrins, i.e. having more than 20 ring atoms, e.g. texaphyrins, sapphyrins, hexaphyrins, pentaphyrins, porphocyanines}
40/4546	... . . . {Moraxella}	41/008	. . {Two-Photon or Multi-Photon PDT, e.g. with upconverting dyes or photosensitisers}
40/4548	... . . . {Delta proteobacteriales, e.g. Lawsonia; Epsilon proteobacteriales}	41/0085	. . {Mossbauer effect therapy based on mossbauer effect of a material, i.e. re-emission of gamma rays after absorption of gamma rays by the material; selective radiation therapy, i.e. involving re-emission of ionizing radiation upon exposure to a first ionizing radiation}
40/455	... . . {Vibrio; Campylobacter}	41/009	. . {Neutron capture therapy, e.g. using uranium or non-boron material}
40/456	... . . {Escherichia; Klebsiella}	41/0095	. . {Boron neutron capture therapy, i.e. BNCT, e.g. using boronated porphyrins}
40/4562	... . . {Salmonella; Shigella}	41/10	. Inactivation or decontamination of a medicinal preparation prior to administration to an animal or a person
40/4564	... . . {Fusobacterium}	41/13	. . by ultrasonic waves
40/4566	... . . {Polyvalent bacterial antigens}	41/17	. . by ultraviolet [UV] or infrared [IR] light, X-rays or gamma rays
40/4568	... . . {Chlamydiaceae, e.g. Chlamydia trachomatis or Chlamydia psittaci}		
40/46	. . Viral antigens		
40/48	. . Allergens		
40/482	. . . {from pollen}		
40/50	. characterised by the use of allogeneic cells		
<b>41/00</b>	<b>Medicinal preparations obtained by treating materials with wave energy or particle radiation {; Therapies using these preparations}</b>		
41/0004	. {Homeopathy; Vitalisation; Resonance; Dynamisation, e.g. esoteric applications; Oxygenation of blood}		
41/0023	. {Aggression treatment or altering}		
	<b>NOTE</b>		
	{This group covers aggression treatment or altering		
	• of a medicinal preparation prior to administration to the human/animal, e.g. altering a binding specificity of a monoclonal antibody used in a medicinal agent with an oxidizing agent or an electric potential;		
	• of a tissue/organ prior to graft, e.g. destroying immunodominant epitopes;		
	• the permeability of cell membranes or biological barriers <i>in vivo</i> , e.g. by ultrasound, prior to the administration of a medicinal preparation to the animal/human;		
	• for inducing the production of stress response proteins or heat shock proteins in order to reduce subsequent response to injuries}		

45/00	<b>Medicinal preparations containing active ingredients not provided for in groups <u>A61K 31/00 - A61K 41/00</u></b>	47/42	. . Proteins; Polypeptides; Degradation products thereof; Derivatives thereof, e.g. albumin, gelatin or zein ( <b>oligopeptides having up to five amino acids [A61K 47/183]; polyamino acids A61K 47/34]</b> )
45/05	. {Immunological preparations stimulating the reticulo-endothelial system, e.g. against cancer}		
45/06	. Mixtures of active ingredients without chemical characterisation, e.g. antiphlogistics and cardiacs	47/44	. Oils, fats or waxes according to two or more groups of <b>A61K 47/02-A61K 47/42</b> ; Natural or modified natural oils, fats or waxes, e.g. castor oil, polyethoxylated castor oil, montan wax, lignite, shellac, rosin, beeswax or lanolin ( <b>synthetic glycerides, e.g. medium-chain triglycerides, A61K 47/14</b> )
47/00	<b>Medicinal preparations characterised by the non-active ingredients used, e.g. carriers or inert additives; Targeting or modifying agents chemically bound to the active ingredient</b>	47/46	. Ingredients of undetermined constitution or reaction products thereof, e.g. skin, bone, milk, cotton fibre, eggshell, oxgall or plant extracts
47/02	. Inorganic compounds	47/50	. the non-active ingredient being chemically bound to the active ingredient, e.g. polymer-drug conjugates
47/06	. Organic compounds, e.g. natural or synthetic hydrocarbons, polyolefins, mineral oil, petrolatum or ozokerite	47/51	. . the non-active ingredient being a modifying agent
47/08	. . containing oxygen, {e.g. ethers, acetals, ketones, quinones, aldehydes, peroxides}	47/52	. . . the modifying agent being an inorganic compound, e.g. an inorganic ion that is complexed with the active ingredient
47/10	. . . Alcohols; Phenols; Salts thereof, e.g. glycerol; Polyethylene glycols [PEG]; Poloxamers; PEG/POE alkyl ethers	47/54	. . . the modifying agent being an organic compound
47/12	. . . Carboxylic acids; Salts or anhydrides thereof	47/541	. . . . {Organic ions forming an ion pair complex with the pharmacologically or therapeutically active agent}
47/14	. . . Esters of carboxylic acids, e.g. fatty acid monoglycerides, medium-chain triglycerides, parabens or PEG fatty acid esters	47/542	. . . . {Carboxylic acids, e.g. a fatty acid or an amino acid}
47/16	. . containing nitrogen, {e.g. nitro-, nitroso-, azo-compounds, nitriles, cyanates}	47/543	. . . . {Lipids, e.g. triglycerides; Polyamines, e.g. spermine or spermidine}
47/18	. . . Amines; Amides; Ureas; Quaternary ammonium compounds; Amino acids; Oligopeptides having up to five amino acids	47/544	. . . . {Phospholipids}
47/183	. . . . {Amino acids, e.g. glycine, EDTA or aspartame}	47/545	. . . . {Heterocyclic compounds ( <b>A61K 47/558 takes precedence</b> )}
47/186	. . . . {Quaternary ammonium compounds, e.g. benzalkonium chloride or cetrimide}	47/546	. . . . {Porphyrines; Porphyrine with an expanded ring system, e.g. texaphyrine}
47/20	. . containing sulfur, e.g. dimethyl sulfoxide [DMSO], docusate, sodium lauryl sulfate or aminosulfonic acids	47/547	. . . . {Chelates, e.g. Gd-DOTA or Zinc-amino acid chelates; Chelate-forming compounds, e.g. DOTA or ethylenediamine being covalently linked or complexed to the pharmacologically- or therapeutically-active agent}
47/22	. . Heterocyclic compounds, e.g. ascorbic acid, tocopherol or pyrrolidones	47/548	. . . . {Phosphates or phosphonates, e.g. bone-seeking ( <b>phospholipids A61K 47/544</b> )}
47/24	. . containing atoms other than carbon, hydrogen, oxygen, halogen, nitrogen or sulfur, e.g. cyclomethicone or phospholipids	47/549	. . . . {Sugars, nucleosides, nucleotides or nucleic acids}
47/26	. . Carbohydrates, e.g. sugar alcohols, amino sugars, nucleic acids, mono-, di- or oligo-saccharides; Derivatives thereof, e.g. polysorbates, sorbitan fatty acid esters or glycyrrhizin	47/55	. . . . the modifying agent being also a pharmacologically or therapeutically active agent, i.e. the entire conjugate being a codrug, i.e. a dimer, oligomer or polymer of pharmacologically or therapeutically active compounds
47/28	. . Steroids, e.g. cholesterol, bile acids or glycyrrhetic acid	47/551	. . . . . {one of the codrug's components being a vitamin, e.g. niacinamide, vitamin B3, cobalamin, vitamin B12, folate, vitamin A or retinoic acid}
47/30	. Macromolecular organic or inorganic compounds, e.g. inorganic polyphosphates	47/552	. . . . . {one of the codrug's components being an antibiotic}
47/32	. . Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds, e.g. carbomers {, poly(meth)acrylates, or polyvinyl pyrrolidone}	47/554	. . . . . {the modifying agent being a steroid plant sterol, glycyrrhetic acid, enoxolone or bile acid}
47/34	. . Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polyesters, polyamino acids, polysiloxanes, polyphosphazines, copolymers of polyalkylene glycol or poloxamers ( <b>A61K 47/10 takes precedence</b> )	47/555	. . . . . {pre-targeting systems involving an organic compound, other than a peptide, protein or antibody, for targeting specific cells}
47/36	. . Polysaccharides; Derivatives thereof, e.g. gums, starch, alginate, dextrin, hyaluronic acid, chitosan, inulin, agar or pectin	47/556	. . . . . {enzyme catalyzed therapeutic agent [ECTA]}
47/38	. . . Cellulose; Derivatives thereof		
47/40	. . . Cyclodextrins; Derivatives thereof		

47/557	..... {the modifying agent being biotin}	47/645	..... {Polycationic or polyanionic oligopeptides, polypeptides or polyamino acids, e.g. polylysine, polyarginine, polyglutamic acid or peptide TAT}
47/558	..... {the modifying agent being a chemiluminescent acceptor}	47/6455	..... {Polycationic oligopeptides, polypeptides or polyamino acids, e.g. for complexing nucleic acids}
47/559	..... {Redox delivery systems, e.g. dihydropyridine pyridinium salt redox systems}	47/646	..... {the entire peptide or protein drug conjugate elicits an immune response, e.g. conjugate vaccines}
47/56	.... the modifying agent being an organic macromolecular compound, e.g. an oligomeric, polymeric or dendrimeric molecule	47/65	.... Peptidic linkers, binders or spacers, e.g. peptidic enzyme-labile linkers
47/58	.... obtained by reactions only involving carbon-to-carbon unsaturated bonds, e.g. poly[meth]acrylate, polyacrylamide, polystyrene, polyvinylpyrrolidone, polyvinylalcohol or polystyrene sulfonic acid resin	47/66	.... the modifying agent being a pre-targeting system involving a peptide or protein for targeting specific cells
47/585	.... {Ion exchange resins, e.g. polystyrene sulfonic acid resin}	47/665	.... {the pre-targeting system, clearing therapy or rescue therapy involving biotin-(strept) avidin systems}
47/59	.... obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polyureas or polyurethanes	47/67	.... {Enzyme prodrug therapy, e.g. gene directed enzyme drug therapy [GDEPT] or VDEPT}
47/593	.... {Polyesters, e.g. PLGA or polylactide-co-glycolide}	47/68	.... the modifying agent being an antibody, an immunoglobulin or a fragment thereof, e.g. an Fc-fragment
47/595	.... {Polyamides, e.g. nylon (polyamino acids A61K 47/62)}	47/6801	.... {Drug-antibody or immunoglobulin conjugates defined by the pharmacologically or therapeutically active agent}
47/60	.... the organic macromolecular compound being a polyoxyalkylene oligomer, polymer or dendrimer, e.g. PEG, PPG, PEO or polyglycerol	47/6803	.... {Drugs conjugated to an antibody or immunoglobulin, e.g. cisplatin-antibody conjugates}
47/605	.... {the macromolecule containing phosphorus in the main chain, e.g. poly-phosphazene}	47/68031	.... {the drug being an auristatin}
47/61	.... the organic macromolecular compound being a polysaccharide or a derivative thereof	47/68033	.... {the drug being a maytansine}
47/62	.... the modifying agent being a protein, peptide or polyamino acid	47/68035	.... {the drug being a pyrrolobenzodiazepine}
47/64	.... Drug-peptide, drug-protein or drug-polyamino acid conjugates, i.e. the modifying agent being a peptide, protein or polyamino acid which is covalently bonded or complexed to a therapeutically active agent (peptidic linkers A61K 47/65)	47/68037	.... {the drug being a camptothecin [CPT] or derivatives}
47/641	.... {Branched, dendritic or hypercomb peptides}	47/6805	.... {the drug being a vinca alkaloid}
47/6415	.... {Toxins or lectins, e.g. clostridial toxins or Pseudomonas exotoxins}	47/6807	.... {the drug or compound being a sugar, nucleoside, nucleotide, nucleic acid, e.g. RNA antisense}
47/642	.... {the peptide or protein in the drug conjugate being a cytokine, e.g. IL2, chemokine, growth factors or interferons being the inactive part of the conjugate}	47/6809	.... {Antibiotics, e.g. antitumor antibiotics anthracyclines, adriamycin, doxorubicin or daunomycin}
47/6425	.... {the peptide or protein in the drug conjugate being a receptor, e.g. CD4, a cell surface antigen, i.e. not a peptide ligand targeting the antigen, or a cell surface determinant, i.e. a part of the surface of a cell}	47/6811	.... {the drug being a protein or peptide, e.g. transferrin or bleomycin}
47/643	.... {Albumins, e.g. HSA, BSA, ovalbumin or a Keyhole Limpet Hemocyanin [KHL]}	47/6813	.... {the drug being a peptidic cytokine, e.g. an interleukin or interferon}
47/6435	.... {the peptide or protein in the drug conjugate being a connective tissue peptide, e.g. collagen, fibronectin or gelatin}	47/6815	.... {Enzymes}
47/644	.... {Transferrin, e.g. a lactoferrin or ovotransferrin}	47/6817	.... {Toxins}
47/6445	.... {Haemoglobin}	47/6819	.... {Plant toxins}
		47/6821	.... {Plant heterodimeric toxins, e.g. abrin or modeccin}
		47/6823	.... {Double chain ricin}
		47/6825	.... {Ribosomal inhibitory proteins, i.e. RIP-I or RIP-II, e.g. Pap, gelonin or dianthin}
		47/6827	.... {Ricin A}
		47/6829	.... {Bacterial toxins, e.g. diphteria toxins or Pseudomonas exotoxin A}
		47/6831	.... {Fungal toxins, e.g. alpha sarcine, mitogillin, zinniol or restrictocin}
		47/6833	.... {Viral toxins}

47/6835	..... {the modifying agent being an antibody or an immunoglobulin bearing at least one antigen-binding site}	47/6887	..... {Antibody-chelate conjugates using chelates for therapeutic purposes (radioactive substances, e.g. for use in radio diagnosis or radiotherapy, <a href="#">A61K 51/10</a> ; antibody-chelates for use in MRI <a href="#">A61K 49/14</a> )}
47/6839	..... {the antibody targeting material from viruses}	47/6889	..... {Conjugates wherein the antibody being the modifying agent and wherein the linker, binder or spacer confers particular properties to the conjugates, e.g. peptidic enzyme-labile linkers or acid-labile linkers, providing for an acid-labile immuno conjugate wherein the drug may be released from its antibody conjugated part in an acidic, e.g. tumoural or environment}
47/6841	..... {the antibody targeting a RNA virus}	47/6891	..... {Pre-targeting systems involving an antibody for targeting specific cells}
47/6843	..... {the antibody targeting a material from animals or humans}	47/6893	..... {clearing therapy or enhanced clearance, i.e. using an antibody clearing agents in addition to T-A and D-M}
47/6845	..... {the antibody targeting a cytokine, e.g. growth factors, VEGF, TNF, a lymphokine or an interferon}	47/6895	..... {Rescue therapy; Agonist-antagonist; Antidotes; Targeted rescue or protection, e.g. by folic acid-folinic acid or conjugated to antibodies}
47/6847	..... {the antibody targeting a hormone or a hormone-releasing or -inhibiting factor}	47/6897	..... {Pre-targeting systems with two or three steps using antibody conjugates; Ligand-antiligand therapies}
47/6849	..... {the antibody targeting a receptor, a cell surface antigen or a cell surface determinant}	47/6898	..... {using avidin- or biotin-conjugated antibodies}
47/6851	..... {the antibody targeting a determinant of a tumour cell}	47/6899	..... {Antibody-Directed Enzyme Prodrug Therapy [ADEPT]}
47/6853	..... {Carcino-embryonic antigens}	47/69	... the conjugate being characterised by physical or galenical forms, e.g. emulsion, particle, inclusion complex, stent or kit
47/6855	..... {the tumour determinant being from breast cancer cell}	47/6901	... {Conjugates being cells, cell fragments, viruses, ghosts, red blood cells or viral vectors}
47/6857	..... {the tumour determinant being from lung cancer cell}	47/6903	... {the form being semi-solid, e.g. an ointment, a gel, a hydrogel or a solidifying gel}
47/6859	..... {the tumour determinant being from liver or pancreas cancer cell}	47/6905	... {the form being a colloid or an emulsion}
47/6861	..... {the tumour determinant being from kidney or bladder cancer cell}	47/6907	... {the form being a microemulsion, nanoemulsion or micelle}
47/6863	..... {the tumour determinant being from stomach or intestines cancer cell}	47/6909	... {Micelles formed by phospholipids}
47/6865	..... {the tumour determinant being from skin, nerves or brain cancer cell}	47/6911	... {the form being a liposome}
47/6867	..... {the tumour determinant being from a cell of a blood cancer}	47/6913	... {the liposome being modified on its surface by an antibody}
47/6869	..... {the tumour determinant being from a cell of the reproductive system: ovaria, uterus, testes, prostate}	47/6915	... {the form being a liposome with polymerisable or polymerized bilayer-forming substances, e.g. polymersomes}
47/6871	..... {the antibody targeting an enzyme}	47/6917	... {the form being a lipoprotein vesicle, e.g. HDL or LDL proteins}
47/6873	..... {the antibody targeting an immunoglobulin; the antibody being an anti-idiotypic antibody}	47/6919	... {the form being a ribbon or a tubule cochleate}
47/6875	..... {the antibody being a hybrid immunoglobulin}	47/6921	... {the form being a particulate, a powder, an adsorbate, a bead or a sphere}
47/6877	..... {the antibody being an immunoglobulin containing regions, domains or residues from different species}	47/6923	... {the form being an inorganic particle, e.g. ceramic particles, silica particles, ferrite or synsorb}
47/6879	..... {the immunoglobulin having two or more different antigen-binding sites, e.g. bispecific or multispecific immunoglobulin}	47/6925	... {the form being a microcapsule, nanocapsule, microbubble or nanobubble}
47/6881	..... {Cluster-antibody conjugates, i.e. the modifying agent consists of a plurality of antibodies covalently linked to each other or of different antigen-binding fragments covalently linked to each other}	47/6927	... {the form being a solid microparticle having no hollow or gas-filled cores}
47/6883	..... {Polymer-drug antibody conjugates, e.g. mitomycin-dextran-Ab; DNA-polylysine-antibody complex or conjugate used for therapy}	47/6929	... {the form being a nanoparticle, e.g. an immuno-nanoparticle}
47/6885	..... {the conjugate or the polymer being a starburst, a dendrimer, a cascade}	47/6931	... {the material constituting the nanoparticle being a polymer}

47/6933	. . . . .	{the polymer being obtained by reactions only involving carbon to carbon, e.g. poly(meth)acrylate, polystyrene, polyvinylpyrrolidone or polyvinylalcohol}	49/0004	. {Screening or testing of compounds for diagnosis of disorders, assessment of conditions, e.g. renal clearance, gastric emptying, testing for diabetes, allergy, rheuma, pancreas functions}
47/6935	. . . . .	{the polymer being obtained otherwise than by reactions involving carbon to carbon unsaturated bonds, e.g. polyesters, polyamides or polyglycerol}	49/0006	. . {Skin tests, e.g. intradermal testing, test strips, delayed hypersensitivity}
47/6937	. . . . .	{the polymer being PLGA, PLA or polyglycolic acid}	49/0008	. . {Screening agents using (non-human) animal models or transgenic animal models or chimeric hosts, e.g. Alzheimer disease animal model, transgenic model for heart failure}
47/6939	. . . . .	{the polymer being a polysaccharide, e.g. starch, chitosan, chitin, cellulose or pectin}	49/001	. {Preparation for luminescence or biological staining}
47/6941	. . . . .	{the form being a granulate or an agglomerate}	49/0013	. . {Luminescence}
47/6943	. . . . .	{the form being a pill, a tablet, a lozenge or a capsule}	49/0015	. . . {Phosphorescence}
47/6949	. . . . .	{inclusion complexes, e.g. clathrates, cavitates or fullerenes}	49/0017	. . . {Fluorescence <i>in vivo</i> }
47/6951	. . . . .	{using cyclodextrin ( <a href="#">cyclodextrins used as simple excipients A61K 47/40</a> )}	49/0019	. . . {characterised by the fluorescent group, e.g. oligomeric, polymeric or dendritic molecules}
47/6953	. . . . .	{the form being a fibre, a textile, a slab or a sheet}		<b>NOTE</b>
47/6955	. . . . .	{the form being a plaster, a bandage, a dressing or a patch}		{If this fluorescent group is complexed or covalently linked to a carrier, classification is also made according to the nature of the carrier in the appropriate <a href="#">A61K 49/005</a> subgroup.}
47/6957	. . . . .	{the form being a device or a kit, e.g. stents or microdevices}	49/0021	. . . . . {the fluorescent group being a small organic molecule}
<b>48/00</b>	<b>Medicinal preparations containing genetic material which is inserted into cells of the living body to treat genetic diseases; Gene therapy</b>		49/0023	. . . . . {Di-or triarylmethane dye ( <a href="#">xanthene dyes A61K 49/0041</a> )}
48/0008	. . . . .	{characterised by an aspect of the 'non-active' part of the composition delivered, e.g. wherein such 'non-active' part is not delivered simultaneously with the 'active' part of the composition}	49/0026	. . . . . {Acridine dyes}
48/0016	. . . . .	{wherein the nucleic acid is delivered as a 'naked' nucleic acid, i.e. not combined with an entity such as a cationic lipid}	49/0028	. . . . . {Oxazine dyes}
48/0025	. . . . .	{wherein the non-active part clearly interacts with the delivered nucleic acid}	49/003	. . . . . {Thiazine dyes}
48/0033	. . . . .	{the non-active part being non-polymeric}	49/0032	. . . . . {Methine dyes, e.g. cyanine dyes}
48/0041	. . . . .	{the non-active part being polymeric}	49/0034	. . . . . {Indocyanine green, i.e. ICG, cardiogreen}
48/005	. . . . .	{characterised by an aspect of the 'active' part of the composition delivered, i.e. the nucleic acid delivered}	49/0036	. . . . . {Porphyrins (used in photodynamic therapy <a href="#">A61K 41/0071</a> or <a href="#">A61K 41/0076</a> ; used as targeting group or modifying agent for targeting a therapeutic compound <a href="#">A61K 47/546</a> )}
48/0058	. . . . .	{Nucleic acids adapted for tissue specific expression, e.g. having tissue specific promoters as part of a construct}	49/0039	. . . . . {Coumarin dyes}
48/0066	. . . . .	{Manipulation of the nucleic acid to modify its expression pattern, e.g. enhance its duration of expression, achieved by the presence of particular introns in the delivered nucleic acid}	49/0041	. . . . . {Xanthene dyes, used <i>in vivo</i> , e.g. administered to a mice, e.g. rhodamines, rose Bengal ( <a href="#">in vivo G01N</a> )}
48/0075	. . . . .	{characterised by an aspect of the delivery route, e.g. oral, subcutaneous}	49/0043	. . . . . {Fluorescein, used <i>in vivo</i> }
48/0083	. . . . .	{characterised by an aspect of the administration regime}	49/0045	. . . . . {the fluorescent agent being a peptide or protein used for imaging or diagnosis <i>in vivo</i> }
48/0091	. . . . .	{Purification or manufacturing processes for gene therapy compositions}	49/0047	. . . . . {Green fluorescent protein [GFP]}
<b>49/00</b>	<b>Preparations for testing <i>in vivo</i></b>		49/005	. . . . . {characterised by the carrier molecule carrying the fluorescent agent}
49/0002	. . . . .	{General or multifunctional contrast agents, e.g. chelated agents}		<b>NOTE</b>
				{Classification is also made according to the nature of the fluorescent group in the appropriate subgroup of <a href="#">A61K 49/0019</a> .}
			49/0052	. . . . . {Small organic molecules (oligomers, polymers, dendrimers <a href="#">A61K 49/0054</a> )}
			49/0054	. . . . . {Macromolecular compounds, i.e. oligomers, polymers, dendrimers}
			49/0056	. . . . . {Peptides, proteins, polyamino acids}
			49/0058	. . . . . {Antibodies}

49/006	. . . {Biological staining of tissues <i>in vivo</i> , e.g. methylene blue or toluidine blue O administered in the buccal area to detect epithelial cancer cells, dyes used for delineating tissues during surgery}	49/0084	. . . . . {liposome, i.e. bilayered vesicular structure}
	<b>NOTE</b>		<b>NOTE</b>
	{If the dye used for staining is fluorescent, classification is also given for the appropriate subgroup of <a href="#">A61K 49/0019</a> .}		{When the surface of the liposome encapsulating a fluorescent agent and used <i>in vivo</i> is functionalised by a modifying agent, classification is also made according to the nature of this modifying agent: e.g. a liposome modified on its surface by a peptide is classified in <a href="#">A61K 49/0084</a> and <a href="#">A61K 49/0056</a> . Liposomes encapsulating a fluorescent agent, used <i>in vivo</i> and modified on their surface by a polymer because they incorporate a polymer-lipid conjugate, are only additionally classified in <a href="#">A61K 49/0054</a> if the polymer modifying the lipid is unusual. Liposomes encapsulating a fluorescent agent which are pegylated because they incorporate a pegylated lipid are only classified in <a href="#">A61K 49/0084</a> , not in <a href="#">A61K 49/0054</a> .}
49/0063	. . . {characterised by a special physical or galenical form, e.g. emulsions, microspheres}		
	<b>NOTE</b>		
	{Note Classification is also made according to the nature of the luminescent or fluorescent agent and/or the carrier carrying the fluorescent agent.}		
49/0065	. . . . . {the luminescent/fluorescent agent having itself a special physical form, e.g. gold nanoparticle}	49/0086	. . . . . {Polymersome, i.e. liposome with polymerisable or polymerized bilayer-forming substances}
49/0067	. . . . . {quantum dots, fluorescent nanocrystals}	49/0089	. . . . . {Particulate, powder, adsorbate, bead, sphere}
	<b>NOTE</b>	49/0091	. . . . . {Microparticle, microcapsule, microbubble, microsphere, microbead, i.e. having a size or diameter higher or equal to 1 micrometer}
49/0069	. . . . . {the agent being in a particular physical galenical form}		<b>NOTE</b>
	<b>NOTE</b>		{When the surface of the microparticle encapsulating a fluorescent agent and used <i>in vivo</i> is functionalised by a modifying agent, classification is also made according to the nature of this modifying agent, e.g. a microparticle modified on its surface by a peptide is classified in <a href="#">A61K 49/0091</a> and <a href="#">A61K 49/0056</a> .}
49/0071	. . . . . {solution, solute}	49/0093	. . . . . {Nanoparticle, nanocapsule, nanobubble, nanosphere, nanobead, i.e. having a size or diameter smaller than 1 micrometer, e.g. polymeric nanoparticle}
49/0073	. . . . . {semi-solid, gel, hydrogel, ointment}	49/0095	. . . . . {Nanotubes}
49/0076	. . . . . {dispersion, suspension, e.g. particles in a liquid, colloid, emulsion}	49/0097	. . . . . {Cells, viruses, ghosts, red blood cells, viral vectors, used for imaging or diagnosis <i>in vivo</i> }
49/0078	. . . . . {microemulsion, nanoemulsion}	49/04	. X-ray contrast preparations
	<b>NOTE</b>		<b>NOTE</b>
	{Microemulsion means that the dispersed phase is in the form of globules having a diameter above or equal to 1 micrometer. Nanoemulsion means that the dispersed phase is in the form of globules having a diameter below 1 micrometer.}		In the preparation of new organic compounds and their use in X-ray contrast preparations, classification is only made in the relevant subclasses <a href="#">C07C - C07J</a> according to the type of compound
49/008	. . . . . {lipoprotein vesicle, e.g. HDL or LDL proteins}	49/0404	. . . {containing barium sulfate}
49/0082	. . . . . {micelle, e.g. phospholipidic micelle and polymeric micelle}		
	<b>NOTE</b>		
	{Micelles comprise a monolayer of surfactant molecules that are aggregated head-to-head and tail-to-tail, thus forming a small spherical particle; micelles can be normal, i.e., the surfactant heads are hydrophilic, or inverse.}		

49/0409	. . . {Physical forms of mixtures of two different X-ray contrast-enhancing agents, containing at least one X-ray contrast-enhancing agent which is not a halogenated organic compound}	covalently linked or conjugated to a carrier, e.g. polymer. Classification being also made according to the nature of the carrier, e.g. [Gd <sup>3+</sup> ]DOTA-polymer to be classified in <a href="#">A61K 49/085</a> and in the appropriate <a href="#">A61K 49/12</a> adequate subgroup.}
49/0414	. . . {Particles, beads, capsules or spheres}	
49/0419	. . . . {Microparticles, microbeads, microcapsules, microspheres, i.e. having a size or diameter higher or equal to 1 micrometer}	
49/0423	. . . . {Nanoparticles, nanobeads, nanospheres, nanocapsules, i.e. having a size or diameter smaller than 1 micrometer}	
49/0428	. . . . {Surface-modified nanoparticles, e.g. immuno-nanoparticles}	
49/0433	. . . {containing an organic halogenated X-ray contrast-enhancing agent}	
49/0438	. . . {Organic X-ray contrast-enhancing agent comprising an iodinated group or an iodine atom, e.g. iopamidol}	
49/0442	. . . {Polymeric X-ray contrast-enhancing agent comprising a halogenated group}	
49/0447	. . . {Physical forms of mixtures of two different X-ray contrast-enhancing agents, containing at least one X-ray contrast-enhancing agent which is a halogenated organic compound}	
49/0452	. . . . {Solutions, e.g. for injection}	
49/0457	. . . . {Semi-solid forms, ointments, gels, hydrogels}	
49/0461	. . . . {Dispersions, colloids, emulsions or suspensions}	
49/0466	. . . . . {Liposomes, lipoprotein vesicles, e.g. HDL or LDL lipoproteins, phospholipidic or polymeric micelles}	
49/0471	. . . . . {Perflubron, i.e. perfluorooctylbromide, C <sub>8</sub> F <sub>17</sub> Br emulsions}	
49/0476	. . . . {Particles, beads, capsules, spheres}	
49/048	. . . . {Microparticles, microbeads, microcapsules, microspheres, i.e. having a size or diameter higher or equal to 1 micrometer}	
49/0485	. . . . {Nanoparticles, nanobeads, nanospheres, nanocapsules, i.e. having a size or diameter smaller than 1 micrometer}	
49/049	. . . . . {Surface-modified nanoparticles, e.g. immune-nanoparticles}	
49/0495	. . . . . {intended for oral administration}	
49/06	. . Nuclear magnetic resonance [NMR] contrast preparations; Magnetic resonance imaging [MRI] contrast preparations	
	<b>NOTE</b>	
	characterised only by the (inorganic) MRI-active nucleus, e.g. <sup>129</sup> Xe	
49/08	. . characterised by the carrier	
	<b>NOTE</b>	
	{characterised by the carrier carrying the MRI-active nucleus, e.g. inorganic carrier}	
49/085	. . . {conjugated systems}	
	<b>NOTE</b>	
	{The MRI-active nucleus being complexed to a complex-forming compound (e.g. chelating group) or being covalently linked to a molecule, which being further	
49/10	. . . Organic compounds	
	<b>NOTE</b>	
	the carrier being an organic compound, e.g. <sup>13</sup> C-labelled molecule or perfluorinated alkane, used as MRI <i>in vivo</i> probe, or a small organic molecule, e.g. a sugar, linked to a Gd-chelate	
49/101	. . . . {the carrier being a complex-forming compound able to form MRI-active complexes with paramagnetic metals}	
	<b>NOTE</b>	
	{In the <a href="#">A61K 49/101</a> subgroups, the MRI-active nucleus being complexed to a complex-forming compound, e.g. chelating group. Classification being made according to the nature of this complex-forming agent, if it being either an uncommon or new complexing agent (not the usual DTPA, DOTA, DOTP, etc...groups) that forms the real contribution to the claimed MRI invention, or if it being not conjugated to any further molecule, e.g. which being not conjugated to a polymer, peptide, protein or antibody. In that latter case, the MRI probe being e.g. a paramagnetic metal chelate.}	
49/103	. . . . . {the complex-forming compound being acyclic, e.g. DTPA}	
49/105	. . . . . {the metal complex being Gd-DTPA}	
49/106	. . . . . {the complex-forming compound being cyclic, e.g. DOTA}	
49/108	. . . . . {the metal complex being Gd-DOTA}	
49/12	. . . . Macromolecular compounds	
	<b>NOTE</b>	
	the carrier being an organic macromolecular compound, i.e. an oligomeric, polymeric, dendrimeric molecule (not being a peptide, protein, polyamino acid (see <a href="#">A61K 49/00</a> ) or an antibody (see <a href="#">A61K 49/00</a> or <a href="#">A61K 49/16</a> ))	
49/122	. . . . . {dimers of complexes or complex-forming compounds}	
49/124	. . . . . {dendrimers, dendrons, hyperbranched compounds}	
	<b>NOTE</b>	
	{Said compounds are either complexes or complex-forming compounds, or they form a backbone to which MRI active nuclei are complexed or covalently linked through chelating groups. In that latter case, the subgroup <a href="#">A61K 49/085</a> being also	

		given. Dendrimeric, dendronised or hyperbranched polyamino acids used as carriers are also classified in <a href="#">A61K 49/146</a> .	modified on their external surface by a targeting agent, e.g. an antibody are classified in <a href="#">A61K 49/1812</a> without further indication for the targeting agent .}	
49/126	.....	{Linear polymers, e.g. dextran, inulin, PEG}	49/1815 .....	{compo-inhalant, e.g. breath tests}
49/128	.....	{comprising multiple complex or complex-forming groups, being either part of the linear polymeric backbone or being pending groups covalently linked to the linear polymeric backbone}	49/1818 .....	{particles, e.g. uncoated or non-functionalised microparticles or nanoparticles}
		<b>NOTE</b>		<b>NOTE</b>
		{In that latter case, classification is also made in <a href="#">A61K 49/085</a> .}		{ For nanoparticles, i.e. having a size or diameter smaller than 1 micrometer, the subgroups <a href="#">B82Y 5/00</a> and <a href="#">B82Y 15/00</a> are also given. }
49/14	.....	Peptides, e.g. proteins	49/1821 .....	{coated or functionalised microparticles or nanoparticles}
		<b>NOTE</b>	49/1824 .....	{coated or functionalised nanoparticles (liposomes <a href="#">A61K 49/1812</a> ; nanoemulsions <a href="#">A61K 49/1806</a> ; micelles <a href="#">A61K 49/1809</a> )}
		the carrier being a peptide (polyamino acid, <a href="#">A61K 49/146</a> ) or protein (not an antibody, see <a href="#">A61K 49/16</a> ). If the MRI-active nucleus being linked to the peptide or protein or polyamino acid via a complexing or chelating group, the subgroup <a href="#">A61K 49/085</a> should also be given. If the peptide or protein or polyamino acid being a dendrimer, a dendron, or hyperbranched, then the <a href="#">A61K 49/124</a> being also given	49/1827 .....	{having a (super)(para)magnetic core, being a solid MRI-active material, e.g. magnetite, or composed of a plurality of MRI-active, organic agents, e.g. Gd-chelates, or nuclei, e.g. Eu3+, encapsulated or entrapped in the core of the coated or functionalised nanoparticle}
49/143	.....	{the protein being an albumin, e.g. HSA, BSA, ovalbumin}	49/183 .....	{having a (super)(para)magnetic core coated or functionalised with an inorganic material or being composed of an inorganic material entrapping the MRI-active nucleus, e.g. silica core doped with a MRI-active nucleus}
49/146	.....	{the peptide being a polyamino acid, e.g. poly-lysine}	49/1833 .....	{having a (super)(para)magnetic core coated or functionalised with a small organic molecule (oligomeric, polymeric, dendrimeric <a href="#">A61K 49/1851</a> )}
49/16	.....	Antibodies; Immunoglobulins; Fragments thereof	49/1836 .....	{the small organic molecule being a carboxylic acid having less than 8 carbon atoms in the main chain}
		<b>NOTE</b>	49/1839 .....	{the small organic molecule being a lipid, a fatty acid having 8 or more carbon atoms in the main chain, or a phospholipid}
49/18	..	characterised by a special physical form, e.g. emulsions, microcapsules, liposomes	49/1842 .....	{the small organic molecule being a phosphate or a phosphonate, not being a phospholipid}
		<b>NOTE</b>	49/1845 .....	{the small organic molecule being a carbohydrate (monosaccharides, disaccharides)}
		Classification being also made according to the molecule complexing or bearing the MRI-active nucleus	49/1848 .....	{the small organic molecule being a silane}
49/1803	..	{Semi-solid preparations, e.g. ointments, gels, hydrogels}	49/1851 .....	{having a (super)(para)magnetic core coated or functionalised with an organic macromolecular compound, i.e. oligomeric, polymeric, dendrimeric organic molecule (peptide or protein <a href="#">A61K 49/1866</a> ; polyamino acid <a href="#">A61K 49/1872</a> ; antibody <a href="#">A61K 49/1875</a> )}
49/1806	..	{Suspensions, emulsions, colloids, dispersions}		
49/1809	..	{Micelles, e.g. phospholipidic or polymeric micelles}		
49/1812	..	{liposomes, polymersomes, e.g. immunoliposomes}		
		<b>NOTE</b>		
		{If the paramagnetic metal complexes are covalently linked to the bilayered membrane, then the <a href="#">A61K 49/085</a> subgroup being also given. Liposomes		

49/1854	..... {the organic macromolecular compound being obtained by reactions only involving carbon-to-carbon unsaturated bonds, e.g. poly(meth)acrylate, polyacrylamide, polyvinylpyrrolidone, polyvinylalcohol}	49/227	..... {Liposomes, lipoprotein vesicles, e.g. LDL or HDL lipoproteins, micelles, e.g. phospholipidic or polymeric}
49/1857	..... {the organic macromolecular compound being obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, e.g. PLGA}	49/228	..... {Host-guest complexes, clathrates, chelates}
49/186	..... {the organic macromolecular compound being polyethyleneglycol [PEG]}	<b>51/00</b>	<b>Preparations containing radioactive substances for use in therapy or testing in vivo</b>
49/1863	..... {the organic macromolecular compound being a polysaccharide or derivative thereof, e.g. chitosan, chitin, cellulose, pectin, starch}	51/02	characterised by the carrier {, i.e. characterised by the agent or material covalently linked or complexing the radioactive nucleus}
49/1866	..... {the nanoparticle having a (super) (para)magnetic core coated or functionalised with a peptide, e.g. protein, polyamino acid}	51/025	... {inorganic Tc complexes or compounds}
49/1869	..... {coated or functionalised with a protein being an albumin, e.g. HSA, BSA, ovalbumin}	51/04	... Organic compounds
49/1872	..... {coated or functionalised with a polyamino acid, e.g. polylysine, polyglutamic acid}		<b>NOTE</b>
49/1875	..... {coated or functionalised with an antibody}		Organic compounds used as carriers
49/1878	..... {the nanoparticle having a magnetically inert core and a (super)(para)magnetic coating}	51/0402	..... {carboxylic acid carriers, fatty acids (amino acids <a href="#">A61K 51/0406</a> )}
49/1881	..... {wherein the coating consists of chelates, i.e. chelating group complexing a (super)(para)magnetic ion, bound to the surface}	51/0404	..... {Lipids, e.g. triglycerides; Polycationic carriers (polycationic carriers being oligomers, polymers, dendrimers <a href="#">A61K 47/56</a> ; fatty acids <a href="#">A61K 51/0402</a> ; cholesterol <a href="#">A61K 51/0493</a> )}
49/1884	..... {Nanotubes, nanorods or nanowires}	51/0406	..... {Amines, polyamines, e.g. spermine, spermidine, amino acids, (bis)guanidines}
49/1887	..... {Agglomerates, clusters, i.e. more than one (super)(para)magnetic microparticle or nanoparticle are aggregated or entrapped in the same matrix}	51/0408	..... {Phospholipids (liposomes encapsulating the radioactive probe or having no radiolabelled phospholipids <a href="#">A61K 51/1231</a> )}
49/189	..... {Host-guest complexes, e.g. cyclodextrins}	51/041	..... {Heterocyclic compounds}
49/1893	..... {Molecular sieves}		<b>NOTE</b>
49/1896	..... {not provided for elsewhere, e.g. cells, viruses, ghosts, red blood cells, virus capsides}		{Under this group, the last place rule is followed.}
49/20	. containing free radicals {, e.g. trityl radical for overhauser}	51/0412	..... {having oxygen as the only ring hetero atom, e.g. fungichromin}
49/22	. Echographic preparations; Ultrasound imaging preparations {; Optoacoustic imaging preparations}	51/0414	..... {having three-membered rings, e.g. oxirane, fumagillin}
49/221	. {characterised by the targeting agent or modifying agent linked to the acoustically-active agent}	51/0417	..... {having four-membered rings, e.g. taxol}
49/222	. {characterised by a special physical form, e.g. emulsions, liposomes}	51/0419	..... {having five-membered rings with one oxygen as the only ring hetero atom, e.g. isosorbide}
49/223	. {Microbubbles, hollow microspheres, free gas bubbles, gas microspheres}	51/0421	..... {having six-membered rings with one oxygen as the only ring hetero atom}
49/225	. {Microparticles, microcapsules ( <a href="#">gas-filled to be classified in A61K 49/223</a> )}	51/0423	..... {having two or more oxygen atoms in the same ring, e.g. crown ethers, guanadrel}
49/226	. {Solutes, emulsions, suspensions, dispersions, semi-solid forms, e.g. hydrogels}	51/0425	..... {compounds containing methylenedioxyphenol groups, e.g. sesamin}
		51/0427	..... {Lactones}
		51/0429	..... {having sulfur as a ring hetero atom}
		51/0431	..... {having five-membered rings}
		51/0434	..... {having six-membered rings, e.g. thioxanthenes ( <a href="#">thiothixene A61K 51/0459</a> )}
		51/0436	..... {having two or more sulfur atoms in the same ring}
		51/0438	..... {having oxygen in the same ring}
		51/044	..... {having nitrogen as a ring hetero atom, e.g. guanethidine, rifamycins ( <a href="#">rifampin A61K 51/0459</a> )}
		51/0442	..... {having three-membered rings, e.g. aziridine}
		51/0444	..... {having four-membered rings, e.g. azetidine}

51/0446	..... {having five-membered rings with one nitrogen as the only ring hetero atom, e.g. sulpiride, succinimide, tolmetin, buflomedil}
51/0448	..... {tropane or nortropane groups, e.g. cocaine}
51/0451	..... {having four such rings, e.g. phorphine derivatives, bilirubin, biliverdine (hemin, hematin <a href="#">A61K 51/0472</a> )}
	<b>NOTE</b>
	{Porphyrins or texaphyrins used as complex-forming compounds, i.e. wherein the nitrogen atoms forming the central ring system complex the radioactive metal, are classified in <a href="#">A61K 51/0485</a> .}
51/0453	..... {having five-membered rings with two or more ring hetero atoms, at least one of which being nitrogen, e.g. tetrazole}
51/0455	..... {having six-membered rings with one nitrogen as the only ring hetero atom}
51/0457	..... {Vesamicol}
51/0459	..... {having six-membered rings with two nitrogen atoms as the only ring hetero atoms, e.g. piperazine}
51/0461	..... {having six-membered rings with three nitrogens as the only ring hetero atoms, e.g. chlorazanil, melamine ( <a href="#">melarsoprol A61K 51/0472</a> )}
51/0463	..... {having six-membered rings with at least one nitrogen and one oxygen as the ring hetero atoms, e.g. 1,2-oxazines}
51/0465	..... {having six-membered rings with at least one nitrogen and one sulfur as the ring hetero atoms, e.g. sulthiamé}
51/0468	..... {having seven-membered rings, e.g. azelastine, pentylenetetrazole}
51/047	..... {Benzodiazepines}
51/0472	..... {containing heavy metals, e.g. hemin, hematin, melarsoprol}
51/0474	... {complexes or complex-forming compounds, i.e. wherein a radioactive metal (e.g. $^{111}\text{In}^{3+}$ ) is complexed or chelated by, e.g. a $\text{N}_2\text{S}_2$ , $\text{N}_3\text{S}$ , $\text{NS}_3$ , $\text{N}_4$ chelating group}

**NOTE**

{Classification is made according to the nature of this complex-forming agent, if it is either an uncommon or new complexing agent (not the usual DTPA, DOTA, DOTP, MAG3 etc...groups) that forms the real contribution to the claimed invention (radioimaging or radiotherapeutic agent), or if it is not conjugated to any further molecule, e.g. which is not conjugated to a polymer, peptide, protein or antibody. In that latter case, the radioactive agent is e.g. a radioactive metal chelate.}

51/0476	.... {complexes from monodentate ligands, e.g. sestamibi}
51/0478	.... {complexes from non-cyclic ligands, e.g. EDTA, MAG3}

51/048	.... {DTPA (diethylenetriamine tetraacetic acid)}
51/0482	.... {chelates from cyclic ligands, e.g. DOTA}
51/0485	.... {Porphyrins, texaphyrins wherein the nitrogen atoms forming the central ring system complex the radioactive metal}

**NOTE**

{Porphyrins used as simple heterocyclic carriers containing a radioactive nucleus (e.g.  $^{11}\text{C}$ ) or substituted with a radioactive nucleus (e.g.  $^{18}\text{F}$ ), are classified in [A61K 51/0451](#).}

51/0487	.... {Metallocenes, i.e. complexes based on a radioactive metal complexed by two cyclopentadienyl anions}
51/0489	.... {Phosphates or phosphonates, e.g. bone-seeking phosphonates; ( <a href="#">phospholipids: A61K 51/0408</a> ; nucleotides or nucleic acids: <a href="#">A61K 51/0491</a> )}
51/0491	.... {Sugars, nucleosides, nucleotides, oligonucleotides, nucleic acids, e.g. DNA, RNA, nucleic acid aptamers}
51/0493	.... {Steroids, e.g. cholesterol, testosterone}
51/0495	.... {Pretargeting}

**NOTE**

{Pretargeting is the administration of an agent X bearing the radioisotope or radioactive nucleus and of an agent Y capable of binding X and a cell Y in several steps, e.g. the radiolabelled agent is a radiolabelled biotin and the agent Y is a (strept)avidin molecule targeting specific cells. Classification is also made according to the nature of the carrier bearing/linked to the radioactive nucleus, e.g. an antibody.}

51/0497	... {conjugates with a carrier being an organic compounds}
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**NOTE**

{The compound which bears, complexes or chelates the radioactive nucleus, is covalently linked or complexed to the carrier being another (small) organic molecule, i.e. not oligomeric, polymeric, dendrimeric. Classification is also made according to the nature of this small organic molecule. In case of a conjugate comprising a complex-forming compound (chelating group) complexing a radioactive metal linked to the carrier (organic compound in [A61K 51/0497](#)), the nature of this complex-forming compound is not classified except if the complexing/chelating group is the subject of the invention and is uncommon, e.g.  $^{111}\text{In}$ -DTPA-glucose is classified in [A61K 51/0497](#) (not in [A61K 51/048](#) ) and in [A61K 51/0491](#).}

51/06	... Macromolecular compounds {, carriers being organic macromolecular compounds, i.e. organic oligomeric, polymeric, dendrimeric molecules ( <a href="#">peptides, proteins, polyamino acids A61K 51/08</a> ; <a href="#">antibodies A61K 51/10</a> )}
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51/065	..... {conjugates with carriers being macromolecules}	2 and complexing 111In for use <u>in vivo</u> is classified in <a href="#">A61K 51/0478</a> and <a href="#">A61K 51/088.</a> }
<b>NOTE</b>		
	{The compound which bears, complexes or chelates the radioactive nucleus, is covalently linked or complexed to the carrier being a macromolecule (not being a peptide, polyamino acid, protein, antibody). In case of a conjugate comprising a complex-forming compound (chelating group) complexing a radioactive metal linked to the carrier (organic macromolecular compound in <a href="#">A61K 51/065</a> ), the nature of this complex-forming compound is not classified except if it is the real contribution of the claimed invention and it is an uncommon complexing/chelating group, e.g. 111In-DTPA-PEG is classified in <a href="#">A61K 51/065</a> and new DTPA-like derivatives conjugated to PEG and complexing 111In for use <u>in vivo</u> is classified in <a href="#">A61K 51/0478</a> and <a href="#">A61K 51/065.</a> .)}	
51/08	..... Peptides, e.g. proteins {, carriers being peptides, polyamino acids, proteins}	
51/081	..... {the protein being an albumin, e.g. human serum albumin [HSA], bovine serum albumin [BSA], ovalbumin}	
51/082	..... {the peptide being a RGD-containing peptide}	
51/083	..... {the peptide being octreotide or a somatostatin-receptor-binding peptide}	
51/084	..... {the peptide being oxytocin}	
51/085	..... {the peptide being neuropeptides}	
51/086	..... {the peptide being alphaMSH, alpha melanocyte stimulating hormone}	
51/087	..... {the peptide being an annexin, e.g. annexin V}	
51/088	..... {conjugates with carriers being peptides, polyamino acids or proteins ( <a href="#">antibodies A61K 51/10</a> )}	
<b>NOTE</b>		
	{The compound which bears, complexes or chelates the radioactive nucleus, is covalently linked/complexed to the carrier being a peptide, polyamino acid or protein (not being an antibody). Classification is also made according to the nature of the peptide or protein (e.g. if it is BSA, then <a href="#">A61K 51/081</a> is also indicated). In case of a conjugate comprising a complex-forming compound (chelating group) complexing a radioactive metal linked to the carrier (peptide, protein or polyamino acid in <a href="#">A61K 51/088</a> ), the nature of this complex-forming compound is not classified except if it is the real contribution of the claimed invention and it is an uncommon complexing or chelating group, e.g. 111In-DTPA-interleukin 2 is classified in <a href="#">A61K 51/088</a> ; new DTPA-like derivatives conjugated to interleukin	
51/10	..... Antibodies or immunoglobulins; Fragments thereof {, the carrier being an antibody, an immunoglobulin or a fragment thereof, e.g. a camelised human single domain antibody or the Fc fragment of an antibody}	
51/1006	..... {the antibody being against or targeting material from viruses}	
51/1009	..... {against material from bacteria}	
51/1012	..... {against material from fungi, lichens or algae}	
51/1015	..... {against material from plants}	
51/1018	..... {against material from animals or humans}	
51/1021	..... {against cytokines, e.g. growth factors, VEGF, TNF, lymphokines or interferons}	
51/1024	..... {against hormones, hormone-releasing or hormone-inhibiting factors}	
51/1027	..... {against receptors, cell-surface antigens or cell-surface determinants}	
51/103	..... {against receptors for growth factors or receptors for growth regulators}	
51/1033	..... {against receptors for cytokines, lymphokines or interferons}	
51/1036	..... {against hormone receptors}	
51/1039	..... {against T-cell receptors}	
51/1042	..... {against T-cell receptor (TcR)-CD3 complex}	
51/1045	..... {against animal or human tumor cells or tumor cell determinants}	
51/1048	..... {the tumor cell determinant being a carcino embryonic antigen}	
51/1051	..... {the tumor cell being from breast, e.g. the antibody being herceptin}	
51/1054	..... {the tumor cell being from lung}	
51/1057	..... {the tumor cell being from liver or pancreas}	
51/106	..... {the tumor cell being from kidney or bladder}	
51/1063	..... {the tumor cell being from stomach or intestines}	
51/1066	..... {the tumor cell being from skin}	
51/1069	..... {the tumor cell being from blood cells, e.g. the cancer being a myeloma}	
51/1072	..... {the tumor cell being from the reproductive system, e.g. ovaria, uterus, testes or prostate}	
51/1075	..... {the antibody being against an enzyme}	
51/1078	..... {the antibody being against an immunoglobulin, i.e. being an (anti)-anti-idiotypic antibody}	
51/1084	..... {the antibody being a hybrid immunoglobulin}	
51/1087	..... {the immunoglobulin comprises domains from different animal species, e.g. chimeric immunoglobulins}	
51/109	..... {immunoglobulins having two or more different antigen-binding sites or multifunctional antibodies}	

51/1093	. . . . . {conjugates with carriers being antibodies}
<b>NOTE</b>	
	{The compound which bears, complexes or chelates the radioactive nucleus, being covalently linked or complexed to the carrier being an antibody. Classification being also made according to the appropriate <a href="#">A61K 51/10</a> subgroup. In case of a conjugate comprising a complex-forming compound (chelating group) complexing a radioactive metal linked to the carrier (antibody in <a href="#">A61K 51/1093</a> ), the nature of this complex-forming compound being not classified except if it being the real contribution of the claimed invention and it being an uncommon complexing/chelating group, e.g. $^{111}\text{In}$ -DTPA-herceptin being classified in <a href="#">A61K 51/1093</a> and <a href="#">A61K 51/1051</a> , new DTPA-like derivatives conjugated to herceptin and complexing $^{111}\text{In}$ for use <i>in vivo</i> being classified in <a href="#">A61K 51/0478</a> , <a href="#">A61K 51/1093</a> and <a href="#">A61K 51/1051</a> .
51/1096	. . . . . {radioimmunotoxins, i.e. conjugates being structurally as defined in <a href="#">A61K 51/1093</a> , and including a radioactive nucleus for use in radiotherapeutic applications}
51/12	. characterised by a special physical form, e.g. emulsion, microcapsules, liposomes {, characterized by a special physical form, e.g. emulsions, dispersions, microcapsules ( <a href="#">liposomes A61K 51/1234</a> )}
51/1203	. . {in a form not provided for by groups <a href="#">A61K 51/1206</a> - <a href="#">A61K 51/1296</a> , e.g. cells, cell fragments, viruses, virus capsides, ghosts, red blood cells, viral vectors}
51/1206	. . {Administration of radioactive gases, aerosols or breath tests}
51/121	. . {Solutions, i.e. homogeneous liquid formulation}
51/1213	. . {Semi-solid forms, gels, hydrogels, ointments, fats and waxes that are solid at room temperature}
51/1217	. . {Dispersions, suspensions, colloids, emulsions, e.g. perfluorinated emulsion, sols}
51/122	. . . {Microemulsions, nanoemulsions}
51/1224	. . . {Lipoprotein vesicles, e.g. HDL and LDL proteins}
51/1227	. . . {Micelles, e.g. phospholipidic or polymeric micelles}
51/1231	. . . {Aerosols or breath tests, e.g. administration of gasses, emanators}
51/1234	. . . {Liposomes}

**NOTE**

{Liposomes modified on their external surface by a targeting agent, e.g. an antibody, are not additionally classified with the symbol of the targeting agent.}

51/1237	. . . . . {Polymersomes, i.e. liposomes with polymerisable or polymerized bilayer-forming substances}
51/1241	. . {particles, powders, lyophilizates, adsorbates, e.g. polymers or resins for adsorption or ion-exchange resins}
51/1244	. . . {microparticles or nanoparticles, e.g. polymeric nanoparticles}
51/1248	. . . . . {nanotubes}
51/1251	. . . . . {micro- or nanospheres, micro- or nanobeads, micro- or nanocapsules}
51/1255	. . . . . {Granulates, agglomerates, microspheres}
51/1258	. . . {Pills, tablets, lozenges}
51/1262	. . . {Capsules}
51/1265	. . . . . {Microcapsules}
51/1268	. . . {host-guest, closed hollow molecules, inclusion complexes, e.g. with cyclodextrins, clathrates, cavitates, fullerenes}
51/1272	. . . {Sponges}
51/1275	. . . {Fibers, textiles, slabbs, or sheets}
51/1279	. . . {Plasters, bandages, dressings, patches or adhesives}
51/1282	. . . {Devices used <i>in vivo</i> and carrying the radioactive therapeutic or diagnostic agent, therapeutic or <i>in vivo</i> diagnostic kits, stents}
51/1286	. . . {Ampoules, glass carriers carrying the therapeutic or <i>in vivo</i> diagnostic agent}
51/1289	. . . . . {Devices or containers for impregnation, for emanation, e.g. bottles or jars for radioactive water for use in radiotherapy}
51/1293	. . . {Radioactive cosmetics, e.g. radioactive bathsalts, soaps}
51/1296	. . . {Radioactive food, e.g. chocolates, drinks}

**2121/00 Preparations for use in therapy****2123/00 Preparations for testing *in vivo*****2236/00 Isolation or extraction methods of medicinal preparations of undetermined constitution containing material from algae, lichens, fungi or plants, or derivatives thereof, e.g. traditional herbal medicine****NOTE**

If the isolation or extraction method is considered relevant, at least one symbol of [A61K 36/30](#) should always be given. The method can be further characterized by additional [A61K 36/10](#) and/or [A61K 36/50](#) symbols. The last place priority rule does not apply in this part of the scheme

2236/10	. Preparation or pretreatment of starting material
2236/11	. . involving culturing conditions, e.g. cultivation in the dark or under defined water stress
2236/13	. . involving cleaning, e.g. washing or peeling
2236/15	. . involving mechanical treatment, e.g. chopping up, cutting or grinding
2236/17	. . involving drying, e.g. sun-drying or wilting
2236/19	. . involving fermentation using yeast, bacteria or both; enzymatic treatment
2236/30	. Extraction of the material
2236/31	. . involving untreated material, e.g. fruit juice or sap obtained from fresh plants
2236/33	. . involving extraction with hydrophilic solvents, e.g. lower alcohols, esters or ketones

2236/331	. . . using water, e.g. cold water, infusion, tea, steam distillation or decoction	a C-Set, but not be used as a single symbol for classification.
2236/333	. . . using mixed solvents, e.g. 70% EtOH	
2236/35	. . Extraction with lipophilic solvents, e.g. Hexane or petrol ether	
2236/37	. . Extraction at elevated pressure or temperature, e.g. pressurized solvent extraction [PSE], supercritical carbon dioxide extraction or subcritical water extraction	
2236/39	. . Complex extraction schemes, e.g. fractionation or repeated extraction steps	
2236/50	. . Methods involving additional extraction steps	
2236/51	. . Concentration or drying of the extract, e.g. Lyophilisation, freeze-drying or spray-drying	
2236/53	. . Liquid-solid separation, e.g. centrifugation, sedimentation or crystallization	
2236/55	. . Liquid-liquid separation; Phase separation	
<b>2239/00</b>	<b>Indexing codes associated with cellular immunotherapy of group <a href="#">A61K 40/00</a></b>	
2239/10	. characterized by the structure of the chimeric antigen receptor [CAR]	
2239/11	. . Antigen recognition domain	
2239/13	. . . Antibody-based	
2239/15	. . . Non-antibody based	
2239/17	. . Hinge-spacer domain	
2239/21	. . Transmembrane domain	
2239/22	. . Intracellular domain	
2239/23	. . On/off switch	
2239/24	. . . Dimerizable CARs; CARs with adapter	
2239/25	. . . Suicide switch	
2239/27	. characterized by targeting or presenting multiple antigens	
2239/28	. . Expressing multiple CARs, TCRs or antigens	
2239/29	. . Multispecific CARs	
2239/30	. . Mixture of cells	
2239/31	. characterized by the route of administration	
2239/38	. characterised by the dose, timing or administration schedule	
2239/39	. characterised by a specific adjuvant, e.g. cytokines or CpG	
2239/46	. characterised by the cancer treated	
2239/47	. . Brain; Nervous system	
2239/48	. . Blood cells, e.g. leukemia or lymphoma	
2239/49	. . Breast	
2239/50	. . Colon	
2239/51	. . Stomach	
2239/52	. . Intestine	
2239/53	. . Liver	
2239/54	. . Pancreas	
2239/55	. . Lung	
2239/56	. . Kidney	
2239/57	. . Skin; melanoma	
2239/58	. . Prostate	
2239/59	. . Reproductive system, e.g. uterus, ovaries, cervix or testes	
<b>2300/00</b>	<b>Mixtures or combinations of active ingredients, wherein at least one active ingredient is fully defined in groups <a href="#">A61K 31/00</a> - <a href="#">A61K 41/00</a></b>	
	<b>NOTE</b>	
	Orthogonal Indexing Code <a href="#">A61K 2300/00</a>	
	shall only be used as a subsequent symbol of	
		<b>2800/00</b> <b>Properties of cosmetic compositions or active ingredients thereof or formulation aids used therein and process related aspects</b>
		<b>NOTE</b>
		This subclass is a secondary classification, e.g. obligatory supplementary classification when already classified in group <a href="#">A61K 8/00</a> or subclass <a href="#">A61Q</a>
2800/10	. General cosmetic use	
2800/20	. Chemical, physico-chemical or functional or structural properties of the composition as a whole	
2800/21	. . Emulsions characterized by droplet sizes below 1 micron	
2800/22	. . Gas releasing	
2800/222	. . . Effervescent	
2800/24	. . Thermal properties	
2800/242	. . . Exothermic; Self-heating; Heating sensation	
2800/244	. . . Endothermic; Cooling; Cooling sensation	
2800/26	. . Optical properties	
2800/262	. . . Transparent; Translucent	
2800/28	. . Rubbing or scrubbing compositions; Peeling or abrasive compositions; Containing exfoliants	
2800/30	. . Characterized by the absence of a particular group of ingredients	
2800/31	. . . Anhydrous	
2800/33	. . . Free of surfactant	
2800/34	. . . Free of silicones	
2800/40	. Chemical, physico-chemical or functional or structural properties of particular ingredients	
2800/41	. . Particular ingredients further characterized by their size	
2800/412	. . . Microsized, i.e. having sizes between 0.1 and 100 microns	
2800/413	. . . Nanosized, i.e. having sizes below 100 nm	
2800/42	. . Colour properties	
2800/43	. . . Pigments; Dyes	
2800/432	. . . . Direct dyes	
2800/4322	. . . . in preparations for temporarily coloring the hair further containing an oxidizing agent	
2800/4324	. . . . in preparations for permanently dyeing the hair	
2800/434	. . . . Luminescent, Fluorescent; Optical brighteners; Photosensitizers	
2800/436	. . . . Interference pigments, e.g. Iridescent, Pearlescent	
2800/437	. . . . Diffractive phenomena; Photonic arrays	
2800/438	. . . . Thermochromatic; Photochromic; Phototropic	
2800/45	. . . Colour indicators, e.g. pH- or Redox indicators	
2800/47	. . Magnetic materials; Paramagnetic compounds	
2800/48	. . Thickener, Thickening system	
2800/49	. . Solubiliser, Solubilising system	
2800/51	. . Chelating agents	
2800/52	. . Stabilizers	
2800/522	. . . Antioxidants; Radical scavengers	
2800/524	. . . Preservatives	
2800/526	. . . Corrosion inhibitors	

## A61K

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|--|--|
| 2800/54 . . Polymers characterized by specific structures/ properties  | 2800/83 . . Electrophoresis; Electrodes; Electrolytic phenomena                      |
| 2800/542 . . . characterized by the charge   | 2800/84 . . Products or compounds obtained by lyophilisation, freeze-drying          |
| 2800/5422 . . . . nonionic   | 2800/85 . . Products or compounds obtained by fermentation, e.g. yoghurt, beer, wine |
| 2800/5424 . . . . anionic  | 2800/86 . . Products or compounds obtained by genetic engineering                    |
| 2800/5426 . . . . cationic   | 2800/87 . . Application Devices; Containers; Packaging                               |
| 2800/5428 . . . . amphoteric or zwitterionic   | 2800/872 . . . Pencils; Crayons; Felt-tip pens                                       |
| 2800/544 . . . Dendrimers, Hyperbranched polymers  | 2800/874 . . . Roll-on   |
| 2800/546 . . . Swellable particulate polymers  | 2800/88 . . . Two- or multipart kits   |
| 2800/548 . . . Associative polymers  | 2800/882 . . . Mixing prior to application   |
| 2800/56 . . Compounds, absorbed onto or entrapped into a solid carrier, e.g. encapsulated perfumes, inclusion compounds, sustained release forms | 2800/884 . . . Sequential application  |
| 2800/57 . . Compounds covalently linked to a(n inert) carrier molecule, e.g. conjugates, pro-fragrances  | 2800/91 . . . Injection  |
| 2800/58 . . Metal complex; Coordination compounds  | 2800/92 . . . Oral administration  |
| 2800/59 . . Mixtures   | 2800/94 . . . Involves covalent bonding to the substrate                             |
| 2800/591 . . . Mixtures of compounds not provided for by any of the codes<br><u>A61K 2800/592 - A61K 2800/596</u>                                | 2800/95 . . . Involves in-situ formation or cross-linking of polymers                |
| 2800/592 . . . Mixtures of compounds complementing their respective functions  |  |
| 2800/5922 . . . . At least two compounds being classified in the same subclass of <u>A61K 8/18</u>   |  |
| 2800/594 . . . . Mixtures of polymers  |  |
| 2800/596 . . . . Mixtures of surface active compounds  |  |
| 2800/60 . . . Particulates further characterized by their structure or composition   |  |
| 2800/61 . . . Surface treated  |  |
| 2800/612 . . . . By organic compounds  |  |
| 2800/614 . . . . By macromolecular compounds   |  |
| 2800/62 . . . . Coated   |  |
| 2800/621 . . . . . by inorganic compounds  |  |
| 2800/622 . . . . . by organic compounds  |  |
| 2800/623 . . . . . Coating mediated by organosilicone compounds  |  |
| 2800/624 . . . . . by macromolecular compounds   |  |
| 2800/63 . . . . . More than one coating  |  |
| 2800/65 . . . . Characterized by the composition of the particulate/core   |  |
| 2800/651 . . . . . The particulate/core comprising inorganic material  |  |
| 2800/652 . . . . . The particulate/core comprising organic material  |  |
| 2800/654 . . . . . The particulate/core comprising macromolecular material   |  |
| 2800/70 . . Biological properties of the composition as a whole  |  |
| 2800/72 . . . Hypo-allergenic  |  |
| 2800/74 . . Biological properties of particular ingredients  |  |
| 2800/75 . . . Anti-irritant  |  |
| 2800/77 . . . Perfumes having both deodorant and antibacterial properties  |  |
| 2800/78 . . . Enzyme modulators, e.g. Enzyme agonists  |  |
| 2800/782 . . . Enzyme inhibitors; Enzyme antagonists   |  |
| 2800/80 . . Process related aspects concerning the preparation of the cosmetic composition or the storage or application thereof                 |  |
| 2800/805 . . . Corresponding aspects not provided for by any of codes <u>A61K 2800/81 - A61K 2800/95</u>   |  |
| 2800/81 . . . Preparation or application process involves irradiation  |  |
| 2800/82 . . . Preparation or application process involves sonication or ultrasonication  |  |