## SECTION C — CHEMISTRY; METALLURGY

- C12 BIOCHEMISTRY; BEER; SPIRITS; WINE; VINEGAR; MICROBIOLOGY; ENZYMOLOGY; MUTATION OR GENETIC ENGINEERING
- C12N MICROORGANISMS OR ENZYMES; COMPOSITIONS THEREOF; PROPAGATING, PRESERVING, OR MAINTAINING MICROORGANISMS; MUTATION OR GENETIC ENGINEERING; CULTURE MEDIA (microbiological testing media C12Q 1/00) [3]

## Note(s) [3, 4, 6, 7, 2006.01]

- 1. Attention is drawn to Notes (1) to (3) following the title of class C12.
- 2. Biocidal, pest repellant, pest attractant or plant growth regulatory activity of compounds or preparations is further classified in subclass A01P
- 3. Therapeutic activity of single-cell proteins or enzymes is further classified in subclass A61P.
- 4. When classifying in this subclass, classification is also made in group B01D 15/08 insofar as subject matter of general interest relating to chromatography is concerned.
- 5. In this subclass, it is desirable to add the indexing codes of subclass C12R.

## Subclass index

MICROORGANISMS; SPORES; UNDIFFERENTIATED CELLS; VIRUSES	1/00, 3/00, 5/00, 7/00, 11/00
ENZYMES	9/00, 11/00
TREATMENT WITH ELECTRICAL OR WAVE ENERGY	13/00
MUTATION OR GENETIC ENGINEERING	15/00

- 1/00 Microorganisms, e.g. protozoa; Compositions thereof (medicinal preparations containing material from protozoa, bacteria or viruses A61K 35/66, from algae A61K 36/02, from fungi A61K 36/06; preparing medicinal bacterial antigen or antibody compositions, e.g. bacterial vaccines, A61K 39/00); Processes of propagating, maintaining or preserving microorganisms or compositions thereof; Processes of preparing or isolating a composition containing a microorganism; Culture media therefor [3, 2006.01]
- 1/02 Separating microorganisms from their culture media [3, 2006.01]
- Preserving or maintaining viable microorganisms (immobilised microorganisms
   C12N 11/00) [3, 2006.01]
- 1/06 Lysis of microorganisms **[3, 2006.01]**
- 1/08 Reducing the nucleic acid content [3, 2006.01]
- 1/10 Protozoa; Culture media therefor [3, 2006.01]
- 1/11 • modified by introduction of foreign genetic material [5, 2006.01]
- Unicellular algae; Culture media therefor (as new plants A01H 13/00) [3, 2006.01]
- 1/13 • modified by introduction of foreign genetic material **[5, 2006.01]**
- Fungi (culture of mushrooms A01G 18/00; as new plants A01H 15/00); Culture media therefor [3, 2006.01]
- 1/15 modified by introduction of foreign genetic material **[5, 2006.01]**
- 1/16 Yeasts; Culture media therefor **[3, 2006.01]**
- 1/18 • Baker's yeast; Brewer's yeast **[3, 2006.01]**

- 1/19 • modified by introduction of foreign genetic material [5, 2006.01]
- 1/20 Bacteria; Culture media therefor [3, 2006.01]
- 1/21 modified by introduction of foreign genetic material **[5, 2006.01]**
- Processes using, or culture media containing, cellulose or hydrolysates thereof [3, 2006.01]
- Processes using, or culture media containing, waste sulfite liquor [3, 2006.01]
- Processes using, or culture media containing, hydrocarbons (refining of hydrocarbon oils by using microorganisms C10G 32/00) [3, 2006.01]
- 1/28 • aliphatic **[3, 2006.01]**
- 1/30 • having five or less carbon atoms **[3, 2006.01]**
- 1/32 Processes using, or culture media containing, lower alkanols, i.e.  $C_1$  to  $C_6$  [3, 2006.01]
- 1/34 Processes using foam culture **[3, 2006.01]**
- Adaptation or attenuation of cells [3, 2006.01]
- Chemical stimulation of growth or activity by addition of chemical compounds which are not essential growth factors; Stimulation of growth by removal of a chemical compound (C12N 1/34 takes precedence) [3, 2006.01]
- 3/00 Spore-forming or isolating processes [3, 2006.01]
- 5/00 Undifferentiated human, animal or plant cells, e.g. cell lines; Tissues; Cultivation or maintenance thereof; Culture media therefor (plant reproduction by tissue culture techniques A01H 4/00) [3, 5, 2006.01]

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5/02	<ul> <li>Propagation of single cells or cells in suspension;</li> <li>Maintenance thereof; Culture media</li> </ul>	7/04	<ul> <li>Inactivation or attenuation; Producing viral sub- units [3, 2006.01]</li> </ul>
	therefor <b>[3, 2006.01]</b>	7/06	• • by chemical treatment [3, 2006.01]
5/04	<ul> <li>Plant cells or tissues [5, 2006.01]</li> </ul>	7/08	<ul> <li>by serial passage of virus [3, 2006.01]</li> </ul>
5/07	Animal cells or tissues [2010.01]	7,700	by serial passage of viras [5, 2000,01]
3, 0,	Note(s) [2010.01]	9/00	Enzymes, e.g. ligases (6.); Proenzymes; Compositions thereof (preparations containing enzymes for cleaning
	The last place priority rule does not apply between the subgroups of this group.		teeth A61K 8/66, A61Q 11/00; medicinal preparations containing enzymes or proenzymes A61K 38/43;
5/071	<ul> <li>• Vertebrate cells or tissues, e.g. human cells or tissues [2010.01]</li> </ul>		enzyme containing detergent compositions C11D);  Processes for preparing, activating, inhibiting,
5/073	• • • Embryonic cells or tissues; Foetal cells or		separating, or purifying enzymes [3, 2006.01]
E /072E	tissues [2010.01]		Note(s) [3, 5]
	• • • • Embryonic stem cells; Embryonic germ cells [2010.01]		In this group:  • proenzymes are classified with the
	• • • Adult stem cells <b>[2010.01]</b>		corresponding enzymes;
	• • • Oocytes; Oogonia [2010.01]		<ul> <li>enzymes are generally categorised</li> </ul>
5/076	• • • Sperm cells; Spermatogonia [2010.01]		according to the "Nomenclature and
5/077	<ul> <li>• Mesenchymal cells, e.g. bone cells, cartilage</li> </ul>		Classification of Enzymes" of the
	cells, marrow stromal cells, fat cells or muscle		International Commission on Enzymes.
	cells <b>[2010.01]</b>		Where appropriate, this designation appears
5/0775	• • • • Mesenchymal stem cells; Adipose-tissue		in the subgroups below in parenthesis.
	derived stem cells [2010.01]	9/02	<ul> <li>Oxidoreductases (1.), e.g. luciferase [3, 2006.01]</li> </ul>
5/078	<ul> <li>Cells from blood or from the immune</li> </ul>	9/04	<ul> <li>acting on CHOH groups as donors, e.g. glucose</li> </ul>
	system [2010.01]		oxidase, lactate dehydrogenase (1.1) [3, 2006.01]
5/0781	• • • • B cells; Progenitors thereof [2010.01]	9/06	<ul> <li>acting on nitrogen containing compounds as</li> </ul>
	• • • • T cells; NK cells; Progenitors of T or NK		donors (1.4, 1.5, 1.7) [3, 2006.01]
57 07 05	cells [2010.01]	9/08	acting on hydrogen peroxide as acceptor
5/0784	• • • • Dendritic cells; Progenitors		(1.11) [3, 2006.01]
3,0,0	thereof [2010.01]	9/10	<ul> <li>Transferases (2.) (ribonucleases</li> </ul>
5/0786	• • • • Monocytes; Macrophages [2010.01]		C12N 9/22) [3, 2006.01]
	• • • • Granulocytes, e.g. basophils, eosinophils,	9/12	<ul> <li>transferring phosphorus containing groups, e.g.</li> </ul>
5/0/0/	neutrophils or mast cells [2010.01]		kinases (2.7) <b>[3, 2006.01]</b>
5/0790	• • • Stem cells; Multipotent progenitor	9/14	• Hydrolases (3.) [3, 2006.01]
3/0/03	cells [2010.01]	9/16	<ul> <li>acting on ester bonds (3.1) [3, 2006.01]</li> </ul>
5/070	• • • Neural cells [2010.01]	9/18	<ul> <li>Carboxylic ester hydrolases [3, 2006.01]</li> </ul>
	• • • Neurons [2010.01]	9/20	• • • • Triglyceride splitting, e.g. by means of
		3/20	lipase [3, 2006.01]
	• • • • Stem cells; Progenitor cells [2010.01]	9/22	• • • Ribonucleases [3, 2006.01]
5/09	• Tumour cells [2010.01]	9/24	
	• • Stem cells; Progenitor cells [2010.01]		• • acting on glycosyl compounds (3.2) [3, 2006.01]
5/10	<ul> <li>Cells modified by introduction of foreign genetic material, e.g. virus-transformed cells [5, 2006.01]</li> </ul>	9/26	• • • acting on alpha-1, 4-glucosidic bonds, e.g. hyaluronidase, invertase, amylase [3, 2006.01]
5/12	• • Fused cells, e.g. hybridomas [5, 2006.01]	9/28	• • • • Alpha-amylase from microbial source, e.g.
5/14	• • • Plant cells <b>[5, 2006.01]</b>		bacterial amylase [3, 2006.01]
5/16	• • • Animal cells <b>[5, 2006.01]</b>	9/30	• • • • • Fungal source [3, 2006.01]
5/18	• • • • Murine cells, e.g. mouse cells <b>[5, 2006.01]</b>	9/32	<ul> <li>• • • Alpha-amylase from plant</li> </ul>
5/20	• • • • one of the fusion partners being a B		source [3, 2006.01]
J, <b>2</b> 0	lymphocyte [5, 2006.01]	9/34	• • • • Glucoamylase [3, 2006.01]
5/22	• • • Human cells [5, 2006.01]	9/36	<ul> <li>acting on beta-1, 4 bonds between N-</li> </ul>
5/24	• • • one of the fusion partners being a B		acetylmuramic acid and 2-acetylamino 2-
3/24	lymphocyte [5, 2006.01]		deoxy-D-glucose, e.g. lysozyme [3, 2006.01]
5/26	Cells resulting from interspecies	9/38	<ul> <li>acting on beta-galactose-glycoside bonds, e.g.</li> </ul>
3/20	fusion [5, 2006.01]		beta-galactosidase [3, 2006.01]
E /20		9/40	<ul> <li>acting on alpha-galactose-glycoside bonds, e.g.</li> </ul>
5/28	• • • • one of the fusion partners being a human		alpha-galactosidase [3, 2006.01]
	cell <b>[5, 2006.01]</b>	9/42	• • • acting on beta-1, 4-glucosidic bonds, e.g.
7/00	Viruses, e.g. bacteriophages; Compositions thereof;		cellulase [3, 2006.01]
7700	Preparation or purification thereof (medicinal	9/44	• • • acting on alpha-1, 6-glucosidic bonds, e.g.
	preparations containing viruses A61K 35/76; preparing		isoamylase, pullulanase [3, 2006.01]
	medicinal viral antigen or antibody compositions, e.g.	9/46	• • • • Dextranase [3, 2006.01]
	virus vaccines, A61K 39/00) [3, 2006.01]	9/48	acting on peptide bonds, e.g. thromboplastin,
7/01	• Viruses, e.g. bacteriophages, modified by	J/40	leucine aminopeptidase (3.4) [3, 2006.01]
,,,,,	introduction of foreign genetic material (vectors	0/50	• • • Proteinases [3, 2006.01]
	C12N 15/00) <b>[5, 2006.01]</b>	9/50	
7/02	• Recovery or purification [3, 2006.01]	9/52	• • • derived from bacteria [3, 2006.01]
1104	receivery or purmention [0, 2000.01]	9/54	• • • • hacteria heing Bacillus [3 2006 01]

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• • • • bacteria being Bacillus **[3, 2006.01]** 

7/02 • Recovery or purification **[3, 2006.01]** 

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9/56 9/58	<ul> <li>• • • • • Bacillus subtilis or Bacillus licheniformis [3, 2006.01]</li> <li>• • • derived from fungi [3, 2006.01]</li> </ul>	13/00	Treatment of microorganisms or enzymes with electrical or wave energy, e.g. magnetism, sonic waves [3, 2006.01]
9/60	• • • • from yeast [3, 2006.01]	4= 400	
9/62	• • • • from Aspergillus [3, 2006.01]	15/00	Mutation or genetic engineering; DNA or RNA
9/64	• • • derived from animal tissue, e.g. rennin [3, 2006.01]		concerning genetic engineering, vectors, e.g. plasmids, or their isolation, preparation or purification; Use of hosts therefor (mutants or
9/66	• • • Elastase [3, 2006.01]		genetically engineered microorganisms C12N 1/00,
9/68	• • • Plasmin, i.e. fibrinolysin [3, 2006.01]		C12N 5/00, C12N 7/00; new plants A01H; plant
9/70	• • • Streptokinase [3, 2006.01]		reproduction by tissue culture techniques A01H 4/00;
9/72	• • • Urokinase [3, 2006.01]		new animals A01K 67/00; use of medicinal preparations
9/74	• • • Thrombin [3, 2006.01]		containing genetic material which is inserted into cells
9/76	• • Trypsin; Chymotrypsin [3, 2006.01]		of the living body to treat genetic diseases, gene therapy
9/78	• • acting on carbon to nitrogen bonds other than peptide bonds (3.5) [3, 2006.01]		A61K 48/00; peptides in general C07K) <b>[3, 5, 6, 2006.01]</b>
9/80	• • • acting on amide bonds in linear amides [3, 2006.01]		Note(s) [3]
9/82	• • • Asparaginase [3, 2006.01]		This group <u>covers</u> processes wherein there is a modification of the genetic material which would not
9/84	• • • Penicillin amidase [3, 2006.01]		normally occur in nature without intervention of man
9/86	• • acting on amide bonds in cyclic amides, e.g.		which produce a change in the gene structure which is
3700	penicillinase [3, 2006.01]		passed on to succeeding generations.
9/88	• Lyases (4.) [3, 2006.01]	15/01	Preparation of mutants without inserting foreign
9/90	• Isomerases (5.) [3, 2006.01]	15,01	genetic material therein; Screening processes
9/92	• Glucose isomerase [3, 2006.01]		therefor <b>[5, 2006.01]</b>
9/94	• Pancreatin [3, 2006.01]	15/02	<ul> <li>Preparation of hybrid cells by fusion of two or more</li> </ul>
9/96	Stabilising an enzyme by forming an adduct or a		cells, e.g. protoplast fusion [5, 2006.01]
3730	composition; Forming enzyme	15/03	• • Bacteria <b>[5, 2006.01]</b>
	conjugates [3, 2006.01]	15/04	• • Fungi [5, 2006.01]
9/98	Preparation of granular or free-flowing enzyme	15/05	• • Plant cells <b>[5, 2006.01]</b>
	compositions (C12N 9/96 takes	15/06	• • Animal cells <b>[5, 2006.01]</b>
	precedence) [3, 2006.01]	15/07	<ul> <li>Human cells [5, 2006.01]</li> </ul>
9/99	Enzyme inactivation by chemical	15/08	<ul> <li>Cells resulting from interspecies</li> </ul>
	treatment [3, 2006.01]		fusion <b>[5, 2006.01]</b>
44/00		15/09	<ul> <li>Recombinant DNA-technology [5, 2006.01]</li> </ul>
11/00	Carrier-bound or immobilised enzymes; Carrier-	15/10	<ul> <li>Processes for the isolation, preparation or</li> </ul>
	bound or immobilised microbial cells; Preparation thereof [3, 2006.01]		purification of DNA or RNA (chemical
11/02	Enzymes or microbial cells immobilised on or in an		preparation of DNA or RNA C07H 21/00;
11/02	organic carrier [3, 2006.01]		preparation of non-structural polynucleotides from
11/04	<ul> <li>entrapped within the carrier, e.g. gel or hollow</li> </ul>		microorganisms or with enzymes
11,0.	fibres [3, 2006.01]	15/11	C12P 19/34) <b>[5, 2006.01]</b> • DNA or RNA fragments: Modified forms thereof
11/06	attached to the carrier <u>via</u> a bridging	15/11	<ul> <li>DNA or RNA fragments; Modified forms thereof (DNA or RNA not used in recombinant technology</li> </ul>
	agent [3, 2006.01]		C07H 21/00) <b>[5, 2006.01]</b>
11/08	the carrier being a synthetic	15/113	Non-coding nucleic acids modulating the
	polymer [3, 2006.01, 2020.01]	15/115	expression of genes, e.g. antisense
11/082	obtained by reactions only involving carbon-to-		oligonucleotides [2010.01]
	carbon unsaturated bonds [2020.01]	15/115	Aptamers, i.e. nucleic acids binding a target
11/084	• • • Polymers containing vinyl alcohol		molecule specifically and with high affinity
	units <b>[2020.01]</b>		without hybridising therewith [2010.01]
11/087	• • • • Acrylic polymers [2020.01]	15/117	<ul> <li>• Nucleic acids having immunomodulatory</li> </ul>
11/089	<ul> <li>• obtained otherwise than by reactions only</li> </ul>		properties, e.g. containing CpG-
	involving carbon-to-carbon unsaturated		motifs <b>[2010.01]</b>
	bonds [2020.01]	15/12	• • • Genes encoding animal proteins [5, 2006.01]
11/091	• • • • Phenol resins; Amino resins [2020.01]	15/13	• • • • Immunoglobulins [5, 2006.01]
11/093	• • • • Polyurethanes [2020.01]	15/14	• • • • Human serum albumins <b>[5, 2006.01]</b>
11/096	• • • Polyesters; Polyamides [2020.01]	15/15	• • • Protease inhibitors, e.g. antithrombin,
11/098	• • • formed in the presence of the enzymes or	4=	antitrypsin, hirudin <b>[5, 2006.01]</b>
11/10	microbial cells [2020.01]	15/16	• • • Hormones [5, 2006.01]
11/10	• • the carrier being a carbohydrate [3, 2006.01]	15/17	• • • • Insulins [5, 2006.01]
11/12	• • Cellulose or derivatives thereof [3, 2006.01]	15/18	• • • • Growth hormones [5, 2006.01]
11/14	<ul> <li>Enzymes or microbial cells immobilised on or in an inorganic carrier [3, 2006.01]</li> </ul>	15/19	• • • Interferons; Lymphokines; Cytokines [5, 2006.01]
11/16	Enzymes or microbial cells immobilised on or in a	15/20	• • • • Interferons [5, 2006.01]
	biological cell <b>[3, 2006.01]</b>	15/21	• • • • • Alpha-interferons <b>[5, 2006.01]</b>
11/18	Multi-enzyme systems [3, 2006.01]	15/22	• • • • • Beta-interferons <b>[5, 2006.01]</b>

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15/23	• • • • • • Gamma-interferons [5, 2006.01]	<ul> <li>enzymes are generally categorised</li> </ul>
15/24	• • • • • Interleukins [5, 2006.01]	according to the "Nomenclature and
15/25	• • • • • Interleukin-1 [5, 2006.01]	Classification of Enzymes" of the
15/26	• • • • • • Interleukin-2 [5, 2006.01]	International Commission on Enzymes.
15/27		Where appropriate, this designation appears
15/27	<ul><li>• • • Colony stimulating factors [5, 2006.01]</li><li>• • • Tumor necrosis factors [5, 2006.01]</li></ul>	in the groups below in parenthesis.
		15/53 • • • • Oxidoreductases (1) <b>[5, 2006.01]</b>
15/29	• • Genes encoding plant proteins, e.g. thaumatin [5, 2006.01]	15/54 • • • Transferases (2) <b>[5, 2006.01]</b>
15/30	Genes encoding protozoal proteins, e.g. from	15/55 • • • • Hydrolases (3) <b>[5, 2006.01]</b>
13/30	Plasmodium, Trypanosoma,	15/56 • • • • acting on glycosyl compounds (3.2), e.g.
	Eimeria <b>[5, 2006.01]</b>	amylase, galactosidase,
15/31	Genes encoding microbial proteins, e.g.	lysozyme <b>[5, 2006.01]</b>
	enterotoxins <b>[5, 2006.01]</b>	15/57 • • • • acting on peptide bonds (3.4) <b>[5, 2006.01]</b>
15/32	• • • Bacillus crystal proteins <b>[5, 2006.01]</b>	15/58 • • • • • Plasminogen activators, e.g. urokinase,
15/33	• • • • Genes encoding viral proteins <b>[5, 2006.01]</b>	TPA [5, 2006.01]
15/34	• • • • • Proteins from DNA viruses <b>[5, 2006.01]</b>	15/59 · · · · · · Chymosin [5, 2006.01]
15/35	• • • • • Parvoviridae, e.g. feline panleukopenia	15/60 • • • Lyases (4) [5, 2006.01]
	virus, human parvovirus [5, 2006.01]	15/61 • • • Isomerases (5) <b>[5, 2006.01]</b>
15/36	• • • • • Hepadnaviridae <b>[5, 2006.01]</b>	15/62 • • • DNA sequences coding for fusion
15/37	• • • • • Papovaviridae, e.g. papillomaviruses,	proteins [5, 2006.01]
	polyomavirus, SV40 <b>[5, 2006.01]</b>	Note(s) [5]
15/38	• • • • • Herpetoviridae, e.g. herpes simplex	In this group, the following term is used with the
	virus, varicella-zoster virus, Epstein-	meaning indicated:
	Barr virus, cytomegalovirus,	<ul> <li>"fusion" means the fusion of two different</li> </ul>
15/20	pseudorabies virus [5, 2006.01]	proteins.
15/39	• • • • • Poxviridae, e.g. vaccinia virus, variola virus [5, 2006.01]	15/63 • • Introduction of foreign genetic material using
15/40	• • • • • Proteins from RNA viruses, e.g.	vectors; Vectors; Use of hosts therefor; Regulation
13/40	flaviviruses [5, 2006.01]	of expression [5, 2006.01]
15/41	• • • • • Picornaviridae, e.g. rhinovirus,	15/64 • • • General methods for preparing the vector, for
107 11	coxsackie viruses, echoviruses,	introducing it into the cell or for selecting the vector-containing host [5, 2006.01]
	enteroviruses <b>[5, 2006.01]</b>	15/65 • • • using markers (enzymes used as markers
15/42	• • • • • • Foot-and-mouth disease	C12N 15/52) [5, 2006.01]
	virus <b>[5, 2006.01]</b>	15/66 • • • General methods for inserting a gene into a
15/43	• • • • • • Poliovirus <b>[5, 2006.01]</b>	vector to form a recombinant vector using
15/44	• • • • • Orthomyxoviridae, e.g. influenza	cleavage and ligation; Use of non-functional
	virus <b>[5, 2006.01]</b>	linkers or adaptors, e.g. linkers containing the
15/45	• • • • • Paramyxoviridae, e.g. measles virus,	sequence for a restriction
	mumps virus, Newcastle disease virus,	endonuclease [5, 2006.01]
	canine distemper virus, rinderpest virus, respiratory syncytial	Note(s) [5]
	viruses [5, 2006.01]	In this group, the following expression is used with the
15/46	• • • • • Reoviridae, e.g. rotavirus, bluetongue	meaning indicated:
	virus, Colorado tick fever	<ul> <li>"non-functional linkers" means DNA</li> </ul>
	virus <b>[5, 2006.01]</b>	sequences which are used to link DNA
15/47	• • • • • Rhabdoviridae, e.g. rabies viruses,	sequences and which have no known
	vesicular stomatitis virus [5, 2006.01]	function of structural gene or regulating
15/48	• • • • • Retroviridae, e.g. bovine leukaemia	function.
	virus, feline leukaemia	15/67 • • • General methods for enhancing the expression <b>[5, 2006.01]</b>
15/40	virus [5, 2006.01]	15/68 • • • • Stabilisation of the vector <b>[5, 2006.01]</b>
15/49	• • • • • • Lentiviridae, e.g. immunodeficiency viruses such as HIV, visna-maedi	15/69 • • • • Increasing the copy number of the
	virus equine infectious anaemia	vector [5, 2006.01]
	virus [5, 2006.01]	15/70 • • • Vectors or expression systems specially adapted
15/50	• • • • • Coronaviridae, e.g. infectious	for E. coli [5, 2006.01]
	bronchitis virus, transmissible	
	gastroenteritis virus [5, 2006.01]	Note(s) [5]
15/51	• • • • Hepatitis viruses <b>[5, 2006.01]</b>	1. This group <u>covers</u> the use of E. coli as host.
15/52	• • • Genes encoding for enzymes or	2. Shuttle vectors also replicating in E. coli are
	proenzymes <b>[5, 2006.01]</b>	classified according to the other host.
	Note(s) [5]	15/71 • • • • Expression systems using regulatory sequences derived from the trp-
	In this group:	operon [5, 2006.01]
	genes encoding for proenzymes are	15/72 • • • Expression systems using regulatory
	classified with the corresponding genes	sequences derived from the lac-
	encoding enzymes;	operon <b>[5, 2006.01]</b>

<ul> <li>15/73         <ul> <li>Expression systems using phage lambda regulatory sequences [5, 2006.01]</li> </ul> </li> <li>15/74         <ul> <li>Vectors or expression systems specially adapted for prokaryotic hosts other than E. coli, e.g. Lactobacillus, Micromonospora [5, 2006.01]</li> </ul> </li> <li>Note(s) [5]         <ul> <li>This group covers the use of prokaryotes as hosts.</li> </ul> </li> <li>15/75         <ul> <li>for Bacillus [5, 2006.01]</li> </ul> </li> <li>15/76         <ul> <li>for Actinomyces; for Streptomyces [5, 2006.01]</li> </ul> </li> <li>15/77         <ul> <li>for Corynebacterium; for</li> </ul> </li> </ul>	15/84 • • • • • Ti-plasmids [5, 2006.01]  15/85 • • • for animal cells [5, 2006.01]  15/86 • • • Viral vectors [5, 2006.01]  15/861 • • • • Adenoviral vectors [7, 2006.01]  15/863 • • • • Poxviral vectors, e.g. vaccinia virus [7, 2006.01]  15/864 • • • • Parvoviral vectors [7, 2006.01]  15/866 • • • • Baculoviral vectors [7, 2006.01]  15/867 • • • • Retroviral vectors [7, 2006.01]  15/869 • • • • Herpesviral vectors [7, 2006.01]  15/87 • Introduction of foreign genetic material using processes not otherwise provided for, e.g. co-
15/873   15/873   15/873   15/873   15/873   15/873   15/873   15/873   15/873   15/873   15/873   15/873   15/873   15/873   15/877   15/873   15/877   15/873   15/877   15/873   15/877   15/873   15/877   15/873   15/877   15/873   15/877   15/873   15/877   15/873   15/877   15/873   15/877   15/873   1	transformation [5, 2006.01]  15/873 • • Techniques for producing new embryos, e.g. nuclear transfer, manipulation of totipotent cells or production of chimeric embryos [2010.01]  15/87 • • Techniques for producing new mammalian cloned embryos [2010.01]  15/88 • • • using microencapsulation, e.g. using liposome vesicle [5, 2006.01]  15/89 • • • using microinjection [5, 2006.01]
15/83 • • • • • Viral vectors, e.g. cauliflower mosaic virus [5, 2006.01]	15/90 • • • Stable introduction of foreign DNA into chromosome <b>[5, 2006.01]</b>

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