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[^{F1}ANNEX III

Textual Amendments

F1 Substituted by [Commission Directive \(EU\) 2019/1833 of 24 October 2019 amending Annexes I, III, V and VI to Directive 2000/54/EC of the European Parliament and of the Council as regards purely technical adjustments.](#)

BACTERIA and similar organisms

NB: For biological agents appearing on this list, the entry of the whole genus with the addition of 'spp.' refers to other species belonging to this genus that have not specifically been included in the list, but which are known pathogens in humans. See introductory note 3 for further details.

Biological agent	Classification	Notes
<i>Actinomadura madurae</i>	W	
<i>Actinomadura pelletieri</i>	2	
<i>Actinomyces gerencseriae</i>	2	
<i>Actinomyces israelii</i>	2	
<i>Actinomyces</i> spp.	2	
<i>Aggregatibacter actinomycetemcomitans</i> (<i>Actinobacillus actinomycetemcomitans</i>)	2	
<i>Anaplasma</i> spp.	2	
<i>Arcanobacterium haemolyticum</i> (<i>Corynebacterium haemolyticum</i>)	2	
<i>Arcobacter butzleri</i>	2	
<i>Bacillus anthracis</i>	3	T
<i>Bacteroides fragilis</i>	2	
<i>Bacteroides</i> spp.	2	
<i>Bartonella bacilliformis</i>	2	
<i>Bartonella quintana</i> (<i>Rochalimaea quintana</i>)	2	
<i>Bartonella (Rochalimaea)</i> spp.	2	
<i>Bordetella bronchiseptica</i>	2	
<i>Bordetella parapertussis</i>	2	
<i>Bordetella pertussis</i>	2	T, V

a See paragraph 8 of the introductory notes.

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<i>Bordetella</i> spp.	2	
<i>Borrelia burgdorferi</i>	2	
<i>Borrelia duttonii</i>	2	
<i>Borrelia recurrentis</i>	2	
<i>Borrelia</i> spp.	2	
<i>Brachyspira</i> spp.	2	
<i>Brucella abortus</i>	3	
<i>Brucella canis</i>	3	
<i>Brucella inopinata</i>	3	
<i>Brucella melitensis</i>	3	
<i>Brucella suis</i>	3	
<i>Burkholderia cepacia</i>	2	
<i>Burkholderia mallei</i> (<i>Pseudomonas mallei</i>)	3	
<i>Burkholderia pseudomallei</i> (<i>Pseudomonas pseudomallei</i>)	3	D
<i>Campylobacter fetus</i> subsp. <i>fetus</i>	2	
<i>Campylobacter fetus</i> subsp. <i>venerealis</i>	2	
<i>Campylobacter jejuni</i> subsp. <i>doylei</i>	2	
<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	2	
<i>Campylobacter</i> spp.	2	
<i>Cardiobacterium hominis</i>	2	
<i>Cardiobacterium valvarum</i>	2	
<i>Chlamydia abortus</i> (<i>Chlamydophila abortus</i>)	2	
<i>Chlamydia caviae</i> (<i>Chlamydophila caviae</i>)	2	
<i>Chlamydia felis</i> (<i>Chlamydophila felis</i>)	2	
<i>Chlamydia pneumoniae</i> (<i>Chlamydophila pneumoniae</i>)	2	

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<i>Chlamydia psittaci</i> (<i>Chlamydophila psittaci</i>) (avian strains)	3	
<i>Chlamydia psittaci</i> (<i>Chlamydophila psittaci</i>) (other strains)	2	
<i>Chlamydia trachomatis</i> (<i>Chlamydophila trachomatis</i>)	2	
<i>Clostridium botulinum</i>	2	T
<i>Clostridium difficile</i>	2	T
<i>Clostridium perfringens</i>	2	T
<i>Clostridium tetani</i>	2	T, V
<i>Clostridium</i> spp.	2	
<i>Corynebacterium diphtheriae</i>	2	T, V
<i>Corynebacterium minutissimum</i>	2	
<i>Corynebacterium pseudotuberculosis</i>	2	T
<i>Corynebacterium ulcerans</i>	2	T
<i>Corynebacterium</i> spp.	2	
<i>Coxiella burnetii</i>	3	
<i>Edwardsiella tarda</i>	2	
<i>Ehrlichia</i> spp.	2	
<i>Eikenella corrodens</i>	2	
<i>Elizabethkingia meningoseptica</i> (<i>Flavobacterium meningosepticum</i>)	2	
<i>Enterobacter aerogenes</i> (<i>Klebsiella mobilis</i>)	2	
<i>Enterobacter cloacae</i> subsp. <i>cloacae</i> (<i>Enterobacter cloacae</i>)	2	
<i>Enterobacter</i> spp.	2	
<i>Enterococcus</i> spp.	2	
<i>Erysipelothrix rhusiopathiae</i>	2	
<i>Escherichia coli</i> (with the exception of non-pathogenic strains)	2	

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<i>Escherichia coli</i> , verocytotoxigenic strains (e.g. O157:H7 or O103)	3 ^a	T
<i>Fluoribacter bozemanæ</i> (<i>Legionella</i>)	2	
<i>Francisella hispaniænsis</i>	2	
<i>Francisella tularensis</i> subsp. <i>holarctica</i>	2	
<i>Francisella tularensis</i> subsp. <i>mediasiatica</i>	2	
<i>Francisella tularensis</i> subsp. <i>novicida</i>	2	
<i>Francisella tularensis</i> subsp. <i>tularensis</i>	3	
<i>Fusobacterium necrophorum</i> subsp. <i>funduliforme</i>	2	
<i>Fusobacterium necrophorum</i> subsp. <i>necrophorum</i>	2	
<i>Gardnerella vaginalis</i>	2	
<i>Haemophilus ducreyi</i>	2	
<i>Haemophilus influenzae</i>	2	V
<i>Haemophilus</i> spp.	2	
<i>Helicobacter pylori</i>	2	
<i>Helicobacter</i> spp.	2	
<i>Klebsiella oxytoca</i>	2	
<i>Klebsiella pneumoniae</i> subsp. <i>ozaenæ</i>	2	
<i>Klebsiella pneumoniae</i> subsp. <i>pneumoniae</i>	2	
<i>Klebsiella pneumoniae</i> subsp. <i>rhinoscleromatis</i>	2	
<i>Klebsiella</i> spp.	2	
<i>Legionella pneumophila</i> subsp. <i>fraseri</i>	2	
<i>Legionella pneumophila</i> subsp. <i>pascullei</i>	2	
<i>Legionella pneumophila</i> subsp. <i>pneumophila</i>	2	

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<i>Legionella</i> spp.	2	
<i>Leptospira interrogans</i> (all serovars)	2	
<i>Leptospira interrogans</i> spp.	2	
<i>Listeria monocytogenes</i>	2	
<i>Listeria ivanovii</i> subsp. <i>ivanovii</i>	2	
<i>Listeria invanovii</i> subsp. <i>londoniensis</i>	2	
<i>Morganella morganii</i> subsp. <i>morganii</i> (<i>Proteus morganii</i>)	2	
<i>Morganella morganii</i> subsp. <i>sibonii</i>	2	
<i>Mycobacterium abscessus</i> subsp. <i>abscessus</i>	2	
<i>Mycobacterium africanum</i>	3	V
<i>Mycobacterium avium</i> subsp. <i>avium</i> (<i>Mycobacterium avium</i>)	2	
<i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> (<i>Mycobacterium paratuberculosis</i>)	2	
<i>Mycobacterium avium</i> subsp. <i>silvaticum</i>	2	
<i>Mycobacterium bovis</i>	3	V
<i>Mycobacterium caprae</i> (<i>Mycobacterium tuberculosis</i> subsp. <i>caprae</i>)	3	
<i>Mycobacterium chelonae</i>	2	
<i>Mycobacterium chimaera</i>	2	
<i>Mycobacterium fortuitum</i>	2	
<i>Mycobacterium intracellulare</i>	2	
<i>Mycobacterium kansasii</i>	2	
<i>Mycobacterium leprae</i>	3	
<i>Mycobacterium malmoense</i>	2	
<i>Mycobacterium marinum</i>	2	
<i>Mycobacterium microti</i>	3 ^a	

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<i>Mycobacterium pinnipedii</i>	3	
<i>Mycobacterium scrofulaceum</i>	2	
<i>Mycobacterium simiae</i>	2	
<i>Mycobacterium szulgai</i>	2	
<i>Mycobacterium tuberculosis</i>	3	V
<i>Mycobacterium ulcerans</i>	3 ^a	
<i>Mycobacterium xenopi</i>	2	
<i>Mycoplasma hominis</i>	2	
<i>Mycoplasma pneumoniae</i>	2	
<i>Mycoplasma</i> spp.	2	
<i>Neisseria gonorrhoeae</i>	2	
<i>Neisseria meningitidis</i>	2	V
<i>Neorickettsia sennetsu</i> (<i>Rickettsia sennetsu</i> , <i>Ehrlichia sennetsu</i>)	2	
<i>Nocardia asteroides</i>	2	
<i>Nocardia brasiliensis</i>	2	
<i>Nocardia farcinica</i>	2	
<i>Nocardia nova</i>	2	
<i>Nocardia otitidiscaviarum</i>	2	
<i>Nocardia</i> spp.	2	
<i>Orientia tsutsugamushi</i> (<i>Rickettsia tsutsugamushi</i>)	3	
<i>Pasteurella multocida</i> subsp. <i>gallicida</i> (<i>Pasteurella gallicida</i>)	2	
<i>Pasteurella multocida</i> subsp. <i>multocida</i>	2	
<i>Pasteurella multocida</i> subsp. <i>septica</i>	2	
<i>Pasteurella</i> spp.	2	
<i>Peptostreptococcus anaerobius</i>	2	
<i>Plesiomonas shigelloides</i>	2	
<i>Porphyromonas</i> spp.	2	
<i>Prevotella</i> spp.	2	

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<i>Proteus mirabilis</i>	2	
<i>Proteus penneri</i>	2	
<i>Proteus vulgaris</i>	2	
<i>Providencia alcalifaciens</i> (<i>Proteus inconstans</i>)	2	
<i>Providencia rettgeri</i> (<i>Proteus rettgeri</i>)	2	
<i>Providencia</i> spp.	2	
<i>Pseudomonas aeruginosa</i>	2	T
<i>Rhodococcus hoagii</i> (<i>Corynebacterium equi</i>)	2	
<i>Rickettsia africae</i>	3	
<i>Rickettsia akari</i>	3 ^a	
<i>Rickettsia australis</i>	3	
<i>Rickettsia canadensis</i>	2	
<i>Rickettsia conorii</i>	3	
<i>Rickettsia heilongjiangensis</i>	3 ^a	
<i>Rickettsia japonica</i>	3	
<i>Rickettsia montanensis</i>	2	
<i>Rickettsia typhi</i>	3	
<i>Rickettsia prowazekii</i>	3	
<i>Rickettsia rickettsii</i>	3	
<i>Rickettsia sibirica</i>	3	
<i>Rickettsia</i> spp.	2	
<i>Salmonella enterica</i> (<i>choleraesuis</i>) subsp. <i>arizonae</i>	2	
<i>Salmonella Enteritidis</i>	2	
<i>Salmonella Paratyphi A, B, C</i>	2	V
<i>Salmonella Typhi</i>	3 ^a	V
<i>Salmonella Typhimurium</i>	2	
<i>Salmonella</i> (other serovars)	2	
<i>Shigella boydii</i>	2	
<i>Shigella dysenteriae</i> (Type 1)	3 ^a	T

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<i>Shigella dysenteriae</i> , other than Type 1	2	
<i>Shigella flexneri</i>	2	
<i>Shigella sonnei</i>	2	
<i>Staphylococcus aureus</i>	2	T
<i>Streptobacillus moniliformis</i>	2	
<i>Streptococcus agalactiae</i>	2	
<i>Streptococcus dysgalactiae</i> subsp. <i>equisimilis</i>	2	
<i>Streptococcus pneumoniae</i>	2	T, V
<i>Streptococcus pyogenes</i>	2	T
<i>Streptococcus suis</i>	2	
<i>Streptococcus</i> spp.	2	
<i>Treponema carateum</i>	2	
<i>Treponema pallidum</i>	2	
<i>Treponema pertenuae</i>	2	
<i>Treponema</i> spp.	2	
<i>Trueperella pyogenes</i>	2	
<i>Ureaplasma parvum</i>	2	
<i>Ureaplasma urealyticum</i>	2	
<i>Vibrio cholerae</i> (including El Tor)	2	T, V
<i>Vibrio parahaemolyticus</i> (<i>Beneckea parahaemolytica</i>)	2	
<i>Vibrio</i> spp.	2	
<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i>	2	
<i>Yersinia enterocolitica</i> subsp. <i>palaearctica</i>	2	
<i>Yersinia pestis</i>	3	
<i>Yersinia pseudotuberculosis</i>	2	
<i>Yersinia</i> spp.	2	
a	See paragraph 8 of the introductory notes.	

VIRUSES (*)

(*) See paragraph 7 of the introductory notes.

NB: Viruses have been listed according to their order (O), family (F) and genus (G).

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Biological agent(virus species or indicated taxonomy order)	Classification	Notes
Bunyvirales (O)		
<i>Hantaviridae</i> (F)		
Orthohantavirus (G)		
Andes orthohantavirus (Hantavirus species causing Hantavirus Pulmonary Syndrome [HPS])	3	
Bayou orthohantavirus	3	
Black Creek Canal orthohantavirus	3	
Cano Delgadito orthohantavirus	3	
Choclo orthohantavirus	3	
Dobrava-Belgrade orthohantavirus (Hantavirus species causing Haemorrhagic Fever with Renal Syndrome [HFRS])	3	
El Moro Canyon orthohantavirus	3	
Hantaan orthohantavirus (Hantavirus species causing Haemorrhagic Fever with Renal Syndrome [HFRS])	3	
Laguna Negra orthohantavirus	3	
Prospect Hill orthohantavirus	2	
Puumala orthohantavirus (Hantavirus species causing Nephropathia Epidemica [NE])	2	
Seoul orthohantavirus (Hantavirus species causing Haemorrhagic Fever with Renal Syndrome [HFRS])	3	
Sin Nombre orthohantavirus (Hantavirus species causing Hantavirus Pulmonary Syndrome [HPS])	3	

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Other hantaviruses known to be pathogenic	2	
<i>Nairoviridae</i> (F)		
Orthonairovirus (G)		
Crimean-Congo haemorrhagic fever orthonairovirus	4	
Dugbe orthonairovirus	2	
Hazara orthonairovirus	2	
Nairobi sheep disease orthonairovirus	2	
Other nairoviruses known to be pathogenic	2	
<i>Peribunyaviridae</i> (F)		
Orthobunyavirus (G)		
Bunyamwera orthobunyavirus (Germiston virus)	2	
California encephalitis orthobunyavirus	2	
Oropouche orthobunyavirus	3	
Other orthobunyaviruses known to be pathogenic	2	
<i>Phenuiviridae</i> (F)		
Phlebovirus (G)		
Bhanja phlebovirus	2	
Punta Toro phlebovirus	2	
Rift Valley fever phlebovirus	3	
Sandfly fever Naples phlebovirus (Toscana Virus)	2	
SFTS phlebovirus (Severe Fever with Thrombocytopenia Syndrome-Virus)	3	
Other phleboviruses known to be pathogenic	2	
Herpesvirales (O)		
<i>Herpesviridae</i> (F)		
Cytomegalovirus (G)		

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Human betaherpesvirus 5 (Cytomegalovirus)	2	
Lymphocryptovirus (G)		
Human gammaherpesvirus 4 (Epstein-Barr virus)	2	
Rhadinoovirus (G)		
Human gammaherpesvirus 8	2	D
Roseolovirus (G)		
Human betaherpesvirus 6A (Human B-lymphotropic virus)	2	
Human betaherpesvirus 6B	2	
Human betaherpesvirus 7	2	
Simplexvirus (G)		
Macacine alphaherpesvirus 1 (Herpesvirus simiae, Herpes B virus)	3	
Human alphaherpesvirus 1 (Human herpesvirus 1, Herpes simplex virus type 1)	2	
Human alphaherpesvirus 2 (Human herpesvirus 2, Herpes simplex virus type 2)	2	
Varicellovirus (G)		
Human alphaherpesvirus 3 (Herpesvirus varicella-zoster)	2	V
Mononegavirales (O)		
<i>Filoviridae</i> (F)		
Ebolavirus (G)	4	
Marburgvirus (G)		
Marburg marburgvirus	4	
<i>Paramyxoviridae</i> (F)		
Avulavirus (G)		
Newcastle disease virus	2	
Henipavirus (G)		
Hendra henipavirus	4	
Nipah henipavirus	4	
Morbillivirus (G)		

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Measles morbillivirus	2	V
Respirovirus (G)		
Human respirovirus 1 (Parainfluenza virus 1)	2	
Human respirovirus 3 (Parainfluenza virus 3)	2	
Rubulavirus (G)		
Mumps rubulavirus	2	V
Human rubulavirus 2 (Parainfluenza virus 2)	2	
Human rubulavirus 4 (Parainfluenza virus 4)	2	
<i>Pneumoviridae</i> (F)		
Metapneumovirus (G)		
Orthopneumovirus (G)		
Human orthopneumovirus (Respiratory syncytial virus)	2	
<i>Rhabdoviridae</i> (F)		
Lyssavirus (G)		
Australian bat lyssavirus	3 ^c	V
Duvenhage lyssavirus	3 ^c	V
European bat lyssavirus 1	3 ^c	V
European bat lyssavirus 2	3 ^c	V
Lagos bat lyssavirus	3 ^c	
Mokola lyssavirus	3	
Rabies lyssavirus	3 ^c	V
Vesiculovirus (G)		
Vesicular stomatitis virus, Alagoas vesiculovirus	2	
Vesicular stomatitis virus, Indiana vesiculovirus	2	
Vesicular stomatitis virus, New Jersey vesiculovirus	2	
Piry vesiculovirus (Piry virus)	2	
Nidovirales (O)		
<i>Coronaviridae</i> (F)		

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Betacoronavirus (G)		
Severe acute respiratory syndrome-related coronavirus (SARS-virus)	3	
[^{F2} Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) ¹	3	I
Middle East respiratory syndrome coronavirus (MERS-virus)	3	
Other <i>Coronaviridae</i> known to be pathogenic	2	
Picornavirales (O)		
<i>Picornaviridae</i> (F)		
Cardiovirus (G)		
Saffold virus	2	
Cosavirus (G)		
Cosavirus A	2	
Enterovirus (G)		
Enterovirus A	2	
Enterovirus B	2	
Enterovirus C	2	
Enterovirus D, Human Enterovirus type 70 (Acute haemorrhagic conjunctivitis virus)	2	
Rhinoviruses	2	
Poliovirus, type 1 and 3	2	V
Poliovirus, type 2 ^b	3	V
Hepatovirus (G)		
Hepatovirus A (Hepatitis A virus, Human Enterovirus type 72)	2	V
Kobuvirus (G)		
Aichivirus A (Aichi virus 1)	2	
Parechovirus (G)		
Parechoviruses A	2	

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Parechoviruses B (Ljungan virus)	2	
Other <i>Picornaviridae</i> known to be pathogenic	2	
Unassigned (O)		
<i>Adenoviridae</i> (F)	2	
<i>Astroviridae</i> (F)	2	
<i>Arenaviridae</i> (F)		
Mammarenavirus (G)		
Brazilian mammarenavirus	4	
Chapare mammarenavirus	4	
Flexal mammarenavirus	3	
Guanarito mammarenavirus	4	
Junín mammarenavirus	4	
Lassa mammarenavirus	4	
Lujo mammarenavirus	4	
Lymphocytic choriomeningitis mammarenavirus, neurotropic strains	2	
Lymphocytic choriomeningitis mammarenavirus (other strains)	2	
Machupo mammarenavirus	4	
Mobala mammarenavirus	2	
Mopeia mammarenavirus	2	
Tacaribe mammarenavirus	2	
Whitewater Arroyo mammarenavirus	3	
<i>Caliciviridae</i> (F)		
Norovirus (G)		
Norovirus (Norwalk virus)	2	
Other <i>Caliciviridae</i> known to be pathogenic	2	
<i>Hepadnaviridae</i> (F)		
Orthohepadnavirus (G)		
Hepatitis B virus	3 ^c	V, D

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<i>Hepeviridae</i> (F)		
Orthohepevirus (G)		
Orthohepevirus A (Hepatitis E virus)	2	
<i>Flaviviridae</i> (F)		
Flavivirus (G)		
Dengue virus	3	
Japanese encephalitis virus	3	V
Kyasanur Forest disease virus	3	V
Louping ill virus	3 ^c	
Murray Valley encephalitis virus (Australia encephalitis virus)	3	
Omsk haemorrhagic fever virus	3	
Powassan virus	3	
Rocio virus	3	
St. Louis encephalitis virus	3	
Tick-borne encephalitis virus		
Absettarov virus	3	
Hanzalova virus	3	
Hypr virus	3	
Kumlinge virus	3	
Negishi virus	3	
Russian spring-summer encephalitis ^d	3	V
Tick-borne encephalitis virus Central European subtype	3 ^c	V
Tick-borne encephalitis virus Far Eastern Subtype	3	
Tick-borne encephalitis virus Siberian subtype	3	V
Wesselsbron virus	3 ^c	
West Nile fever virus	3	
Yellow fever virus	3	V
Zika virus	2	

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Other flaviviruses known to be pathogenic	2	
Hepacivirus (G)		
Hepacivirus C (Hepatitis C virus)	3 ^c	D
<i>Orthomyxoviridae</i> (F)		
Gammainfluenzavirus (G)		
Influenza C virus	2	V ^f
Influenzavirus A (G)		
Highly Pathogenic Avian Influenza Viruses HPAIV (H5), e.g. H5N1	3	
Highly Pathogenic Avian Influenza Viruses HPAIV (H7), e.g. H7N7, H7N9	3	
Influenza A virus	2	V ^f
Influenza A virus A/New York/1/18 (H1N1) (Spanish flu 1918)	3	
Influenza A virus A/Singapore/1/57 (H2N2)	3	
Low Pathogenic Avian Influenza Virus (LPAI) H7N9	3	
Influenzavirus B (G)		
Influenza B virus	2	V ^f
Thogoto virus (G)		
Dhori virus (Tick-borne <i>orthomyxoviridae</i> : Dhori)	2	
Thogoto virus (Tick-borne <i>orthomyxoviridae</i> : Thogoto)	2	
<i>Papillomaviridae</i> (F)	2	D ^g
<i>Parvoviridae</i> (F)		
Erythroparvovirus (G)		
Primate erythroparvovirus 1 (Human parvovirus, B 19 virus)	2	
<i>Polyomaviridae</i> (F)		
Betapolyomavirus (G)		

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Human polyomavirus 1 (BK virus)	2	D ^g
Human polyomavirus 2 (JC virus)	2	D ^g
<i>Poxviridae</i> (F)		
Molluscipoxvirus (G)		
Molluscum contagiosum virus	2	
Orthopoxvirus (G)		
Cowpox virus	2	
Monkeypox virus	3	V
Vaccinia virus (incl. Buffalopox virus ^h , Elephantpox virus ⁱ , Rabbitpox virus ^j)	2	
Variola (major and minor) virus	4	V
Parapoxvirus (G)		
Orf virus	2	
Pseudocowpox virus (Milkers' node virus, parapoxvirus bovis)	2	
Yatapoxvirus (G)		
Tanapox virus	2	
Yaba monkey tumor virus	2	
<i>Reoviridae</i> (F)		
Seadornavirus (G)		
Banna virus	2	
Coltivirus (G)	2	
Rotaviruses (G)	2	
Orbivirus (G)	2	
<i>Retroviridae</i> (F)		
Deltaretrovirus (G)		
Primate T-lymphotropic virus 1 (Human T-cell lymphotropic virus, type 1)	3 ^c	D

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Primate T-lymphotropic virus 2 (Human T-cell lymphotropic virus, type 2)	3 ^c	D
Lentivirus (G)		
Human immunodeficiency virus 1	3 ^c	D
Human immunodeficiency virus 2	3 ^c	D
Simian Immunodeficiency Virus (SIV) ^k	2	
<i>Togaviridae</i> (F)		
Alphavirus (G)		
Cabassouvirus	3	
Eastern equine encephalomyelitis virus	3	V
Bebaru virus	2	
Chikungunya virus	3 ^c	
Everglades virus	3 ^c	
Mayaro virus	3	
Mucambo virus	3 ^c	
Ndumu virus	3 ^c	
O'nyong-nyong virus	2	
Ross River virus	2	
Semliki Forest virus	2	
Sindbis virus	2	
Tonate virus	3 ^c	
Venezuelan equine encephalomyelitis virus	3	V
Western equine encephalomyelitis virus	3	V
Other alphaviruses known to be pathogenic	2	
Rubivirus (G)		
Rubella virus	2	V
<i>Unassigned</i> (F)		
Deltavirus (G)		
Hepatitis delta virus ^e	2	V, D

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- a** See paragraph 7 of the introductory notes.
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- b** Classification according to WHO Global Action Plan to minimize poliovirus facility-associated risk after type-specific eradication of wild polioviruses and sequential cessation of oral polio vaccine use.
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- c** See paragraph 8 of the introductory notes.
-
- d** Tick-borne encephalitis.
-
- e** Hepatitis delta virus is pathogenic in workers only in the presence of simultaneous or secondary infection caused by hepatitis B virus. Vaccination against hepatitis B virus will therefore protect workers who are not affected by hepatitis B virus against hepatitis delta virus.
-
- f** Only for types A and B.
-
- g** Recommended for work involving direct contact with these agents.
-
- h** Two viruses are identified: one a buffalopox type and the other a variant of the Vaccinia virus.
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- i** Variant of cowpox virus.
-
- j** Variant of Vaccinia.
-
- k** At present there is no evidence of disease in humans caused by the other retroviruses of simian origin. As a precaution containment level 3 is recommended for work with them.
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- l** [F²In line with Article 16(1)(c), non-propagative diagnostic laboratory work involving SARS-CoV-2 should be conducted at a facility using procedures equivalent to at least containment level 2. Propagative work involving SARS-CoV-2 should be conducted at a containment level 3 laboratory with air pressure negative to atmosphere.]]
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Textual Amendments

- F2** Inserted by [Commission Directive \(EU\) 2020/739 of 3 June 2020 amending Annex III to Directive 2000/54/EC of the European Parliament and of the Council as regards the inclusion of SARS-CoV-2 in the list of biological agents known to infect humans and amending Commission Directive \(EU\) 2019/1833.](#)