The list of pathogens of major animal biosecurity concern was created based on the Annex 3 lists contained within departmental policies for veterinary vaccines4. This list should be used in place of the Annex 3 list in departmental policies and may be used for other commodities as deemed appropriate by the Department of Agriculture, Fisheries and Forestry.

|  |
| --- |
| **PATHOGENS OF MAJOR ANIMAL BIOSECURITY CONCERN** |
| **Animal species** | **Pathogen (disease agent)** | **Disease** |
| **Avian — chickens and turkeys**  | Aviadenoviruses (all viruses in the genus)  | Various diseases including hydropericardium syndrome (chickens), inclusion body hepatitis, pulmonary congestion and oedema and bronchitis  |
| *Avian coronavirus* (Infectious bronchitis virus) | Infectious bronchitis, renal disease  |
| *Avian metapneumovirus* (Turkey rhinotracheitis virus) | Turkey rhinotracheitis and sinusitis, swollen head syndrome, poor reproductive performance (females) |
|  *Infectious bursal disease virus*  | Infectious bursal disease (Gumboro disease)  |
| *Salmonella enterica* subsp. enterica serovar Enteritidis (*Salmonella* Enteritidis) | *Salmonella* Enteritidis, Salmonellosis |
| *Salmonella enterica* subsp. enterica serovar *Gallinarum*  | Fowl typhoid  |
| **Avian — ducks and geese and swans** | *Anatid herpesvirus 1* (Duck enteritis virus, Duck plague virus)  | Duck viral enteritis/duck plague  |
| Aviadenoviruses (all viruses in the genus)  | Various diseases including inclusion body hepatitis, pulmonary congestion and oedema and bronchitis  |
| *Avian coronavirus* (Infectious bronchitis virus) | Infectious bronchitis, renal disease  |
| *Avian metapneumovirus* (Turkey rhinotracheitis virus) | Rhinotracheitis, swollen head syndrome, poor reproductive performance (females) |
| *Avihepatovirus A* (Duck hepatitis A virus) Avastrovirus 3 (Duck astroviruses)  | Duck viral hepatitis  |
| *Infectious bursal disease virus*  | Infectious bursal disease (Gumboro disease)  |
| *Salmonella enterica* subsp*. enterica* serovarEnteritidis (*Salmonella* Enteritidis) | *Salmonella* Enteritidis, Salmonellosis |
| *Salmonella enterica* subsp*. enterica* serovarGallinarumbiovarGallinarum | Fowl typhoid |
| *Salmonella enterica* subsp. *enterica* serovar Pullorum  | Pullorum disease  |
| **Bovine** | *Alagoas vesiculovirus, Cocal vesiculovirus, Indiana vesiculovirus & New Jersey vesiculovirus*(Vesicular stomatitis viruses) | Vesicular stomatitis |
| *Bluetongue virus*  | Bluetongue  |
| *Bovine alphaherpesvirus 1* (Infectious bovine rhinotracheitis virus)  | Infectious bovine rhinotracheitis, infectious pustular vulvovaginitis, infectious balanoposthitis, abortion, conjunctivitis, enteritis  |
| *Bovine gammaherpesvirus 4*  | Involved in respiratory disease, ocular disease reproductive disease  |
| Bovine respiratory syncytial virus (*Bovine orthopneumovirus*)  | Bovine respiratory disease complex  |
| *Brucella abortus*  | Brucellosis  |
| *Epizootic haemorrhagic disease virus* (EHDV) (7 serotypes)  | Epizootic haemorrhagic disease (EHD)  |
| *Mycoplasma mycoides* subsp. *mycoides* small colony (SC) type  | Contagious bovine pleuropneumonia  |
| *Pestivirus A* (bovine viral diarrhoea virus (BVDV-1), *Pestivirus B* (BVDV-2) & *Pestivirus H* (atypical ruminant pestivirus) | Bovine viral diarrhoea/mucosal disease, contributes to bovine respiratory disease complex, severe respiratory disease (H)  |
| *Rabies lyssavirus* (Rabies virus)  | Rabies  |
| *Rift Valley fever phlebovirus*  | Rift Valley fever  |
| **Canine** | *Bluetongue virus*  | Bluetongue  |
| *Brucella canis*  | Brucellosis  |
| *Ehrlichia canis*  | Canine monocytic ehrlichiosis (Ehrlichiosis) |
| *Leptospira interrogans* var. *Canicola*  | Leptospirosis  |
| *Rabies lyssavirus* (Rabies virus)  | Rabies  |
| *Suid alphaherpesvirus 1* (Pseudorabies virus, Aujeszky’s disease virus)  | Aujeszky’s disease (pseudorabies)  |
| **Caprine** | *Alagoas vesiculovirus*, *Cocal vesiculovirus*, *Indiana vesiculovirus* & *New Jersey vesiculovirus*(Vesicular stomatitis viruses) | Vesicular stomatitis |
| *Bluetongue virus*  | Bluetongue  |
| *Brucella melitensis*  | Brucellosis  |
| *Jaagsiekte sheep retrovirus* (ovine pulmonary adenocarcinoma virus)  | Ovine pulmonary adenomatosis/ovine pulmonary adenocarcinoma/ Jaagsiekte disease  |
| *Mycoplasma agalactiae*  | Contagious agalactia  |
| *Mycoplasma capricolum* subsp. *capripneumoniae*  | Contagious caprine pleuropneumonia  |
| *Rabies lyssavirus* (Rabies virus)  | Rabies  |
| *Rift Valley fever phlebovirus*  | Rift Valley fever  |
| *Visna-maedi virus* (Maedi-visna virus/ovine lentivirus)  | Visna-maedi  |
| **Equine** | *Alagoas vesiculovirus, Cocal vesiculovirus, Indiana vesiculovirus* & *New Jersey vesiculovirus*(Vesicular stomatitis viruses) | Vesicular stomatitis  |
| *Babesia caballi*  | Equine piroplasmosis /babesiosis  |
| *Burkholderia mallei*  | Glanders  |
| *Equid alphaherpesvirus 1* (equine abortion virus)& *4* (equine rhinopneumonitis virus) | Equine viral abortion (EHV-1), equine rhinopneumonitis (EHV-1 & EHV-4) |
| Equine encephalitis viruses (Eastern equine encephalitis virus, Western equine encephalitis virus, Venezuelan equine encephalitis virus)  | Eastern equine encephalitis (EEE), Western equine encephalitis (WEE), Venezuelan equine encephalitis (VEE)  |
| Equine Influenza A virus Any influenza A virus isolated in equines  | Equine influenza  |
| *Histoplasma capsulatum* var. *farciminosum (Histoplasma farciminosum)*  | Epizootic lymphangitis/equine histoplasmosis  |
| Horsepox virus (vaccinia-like virus)  | Horse pox  |
| Japanese encephalitis virus  | Japanese encephalitis (JE)  |
| *Neorickettsia risticii* (formerly *Ehrlichia ristcii*)  | Potomac horse fever/equine monocytic ehrlichiosis/equine ehrlichial colitis/equine neorickettsiosis  |
| *Rabies lyssavirus* (Rabies virus)  | Rabies  |
| *Taylorella equigenitalis*  | Contagious equine metritis  |
| *Theileria equi*  | Equine piroplasmosis /babesiosis  |
| *Trypanosoma evansi*  | Surra/ equine trypanosomiasis  |
| West Nile virus  | West Nile fever  |
| **Feline** | *Rabies lyssavirus* (Rabies virus)  | Rabies |
| **Ovine** | *Alagoas vesiculovirus*, *Cocal vesiculovirus*, *Indiana vesiculovirus* & *New Jersey vesiculovirus*(Vesicular stomatitis viruses) | Vesicular stomatitis |
| *Bluetongue virus*  | Bluetongue |
| *Brucella melitensis*  | Brucellosis  |
| *Epizootic haemorrhagic disease virus* (EHDV)  | Epizootic hemorrhagic disease (EHD) (clinical disease rarely seen in sheep)  |
| *Jaagsiekte sheep retrovirus* (ovine pulmonary adenocarcinoma virus)  | Ovine pulmonary adenomatosis/ovine pulmonary adenocarcinoma/ Jaagsiekte disease  |
| Louping ill virus  | Louping ill  |
| *Mycoplasma agalactiae*  | Contagious agalactia  |
| *Mycoplasma capricolum* subsp. *capripneumoniae*  | Contagious caprine pleuropneumonia  |
| *Pestivirus A* (bovine viral diarrhoea virus (BVDV-1), B (BVDV-2) & *Pestivirus H* (atypical ruminant pestivirus)  | Bovine viral diarrhoea/mucosal disease (uncommon) |
| *Rabies lyssavirus* (Rabies virus)  | Rabies  |
| *Rift Valley fever virus*  | Rift Valley fever  |
| *Visna-maedi virus* (Maedi-visna virus/ovine lentivirus) | Visna Maedi  |
| **Porcine** | *Alagoas vesiculovirus*, *Cocal vesiculovirus*, *Indiana vesiculovirus* & *New Jersey vesiculovirus*(Vesicular stomatitis viruses) | Vesicular stomatitis |
| *Alphacoronavirus 1* (Transmissible gastroenteritis virus, Porcine respiratory coronavirus) | Transmissible gastroenteritisSubclinical or mild respiratory disease |
| *Betaarterivirus suid 1 & 2* (Porcine reproductive and respiratory syndrome virus types 1 & 2) | Porcine reproductive and respiratory syndrome |
| *Pestivirus A* (bovine viral diarrhoea virus ( BVDV) 1, B (BVDV-2) & K (atypical porcine pestivirus) | Clinical signs and pathological lesions indistinguishable from those observed in classical swine fever  |
| *Porcine circovirus 2*  | Porcine circovirus associated diseases (PCVADs) including post-weaning multi-systemic wasting syndrome, porcine dermatitis and nephropathy syndrome (PDNS) and porcine respiratory complex  |
| Porcine epidemic diarrhoea virus  | Porcine epidemic diarrhoea |
| *Teschovirus A* | Teschen disease/teschovirus encephalomyelitis |
| *Rabies lyssavirus* (Rabies virus)  | Rabies |
| *Suid alphaherpesvirus 1* (Pseudorabies virus, Aujeszky’s disease virus)  | Pseudorabies (Aujeszky's disease)  |
| *Swine influenza A* *virus*Any influenza A viruses isolated in swine | Swine influenza |
| **Rabbit** | *Francisella tularensis*  | Tularaemia/rabbit fever  |
| *Rabbit fibroma virus* (Shope fibroma virus)  | Shope fibromas |
| *Rabbit haemorrhagic disease virus* (rabbit calicivirus)  | Rabbit haemorrhagic disease |
| *Rabies lyssavirus* (Rabies virus)  | Rabies |
| *Treponema paraluiscuniculi*  | Treponematosis  |
| **Rodents – all**  | *Hantavirus* genus species, including Hantaan virus (Korean haemorrhagic fever virus) | Haemorrhagic fever with renal syndrome/Korean haemorrhagic fever |
| *Lymphocytic choriomeningitis mammarenavirus* (Lymphocytic choriomeningitis virus)  | Lymphocytic choriomeningitis  |
| Murine mastadenovirus spp (Murine adenovirus)  | Subclinical infection  |
| *Rabies lyssavirus* (Rabies virus)  | Rabies |

*1 Finalised specific quarantine requirements for the importation of inactivated veterinary vaccines 1997 Policy and Requirements for the Importation of Live and Novel Veterinary Bulk and Finished Vaccines 1999 The Second Edition - Review of published tests to detect pathogens in veterinary vaccines intended for importation into Australia 2013*

*2 Declaration of global freedom from Rinderpest was made by the Food and Agriculture Organisation of the United Nations in June 2011.*

3 *Finalised specific quarantine requirements for the importation* of *inactivated veterinary vaccines 1997 Policy and Requirements for the Importation of Live and Novel Veterinary Bulk and Finished Vaccines 1999 The Second Edition - Review of published tests to detect pathogens in veterinary vaccines intended for importation into Australia 2013*

4 *Finalised specific quarantine requirements for the importation* of *inactivated veterinary vaccines 1997 Policy and Requirements for the Importation of Live and Novel Veterinary Bulk and Finished Vaccines 1999 The Second Edition - Review of published tests to detect pathogens in veterinary vaccines intended for importation into Australia 2013*