



Disease challenge models for the evaluation of fish vaccines, veterinary medicines and feed additives

Over the years, the **Product Evaluation Group** has established challenge models for a **wide range of fish diseases** in a **variety of host species** (both freshwater and marine). Challenge methods include bath/immersion, intraperitoneal injection, cohabitation and intramuscular injection.

Established challenges include:

Bacterial

Aeromonas salmonicida, *Lactococcus garvieae*, *Listonella anguillarum* 01 and 02, *Moritella viscosa*, *Photobacterium damsela*, *Vibrio salmonicida*, *Yersinia ruckeri*.

Viral

Infectious haematopoietic necrosis virus (IHNV), infectious pancreatic necrosis virus (IPNV), infectious salmon anaemia virus (ISAV), Koi herpes virus (KHV), nodavirus, spring viraemia of carp virus (SVCV), viral haemorrhagic septicaemia virus (VHSV).

Parasitic

Argulus spp, *Ichthyophthirius multifiliis*, monogenean trematodes, sea lice (e.g. *Lepeophtheirus salmonis*, *Caligus elongatus*), *Tetracapsuloides bryosalmonae*.

Also available soon:

Flavobacterium psychrophilum (RTFS), *Piscirickettsia salmonis* (SRS), *Renibacterium salmoninarum* (BKD), sleeping disease virus (SDV), salmon pancreas disease virus (SPDV).

Available fish species include:

Salmonids (inc. Atlantic salmon - *Salmo salar* and rainbow trout - *Oncorhynchus mykiss*), cyprinids, sea bass (*Dicentrarchus labrax*), sea bream (*Sparus aurata*), turbot (*Scophthalmus maximus*), Dover sole (*Solea solea*).

Also available soon:

cod (*Gadus morhua*) and halibut (*Hippoglossus hippoglossus*).

The above list of established challenges is continually being expanded in both the range of diseases and in the variety of host species. The efficient sterilisation system and disease containment procedures operated within our experimental facilities ensure that CEFAS can hold and challenge both exotic fish and shellfish species and exotic pathogens. If you are interested in a pathogen or fish species not listed above, please contact the **Product Evaluation Group**.



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