

SUSCEPTIBILITY OF FISH SPECIES TO INFECTION WITH EPIZOOTIC HAEMATOPOIETIC NECROSIS VIRUS (EHNV)

The following table shows the fish species assessed against the criteria for susceptibility to infection with epizootic haematopoietic necrosis virus and the outcomes of the assessments. For details about the specific assessment please refer to the link included in the source column of the table.

Assessment Table Key:

N: Natural infection	Y: Demonstrates criterion is met	ND: Not determined
E: Experimental (non-invasive)	N: Criterion is not met	NS: Not scored
EI: Experimental invasive	I: Inconclusive	N/A: Not applicable

Family	Scientific name	Common name	Stage 1: Route of transmission	Stage 2: Pathogen identification	Stage 3: Evidence of infection				Outcome	References	Source	Year of adoption
					A	B	C	D				
Assessed as a susceptible species and included in Article 10.1.2. of Chapter 10.1. of the <i>Aquatic Code</i>												
Esocidae	<i>Esox lucius</i>	northern pike	E	IHC	Y	Y	Y	Y	1	Jensen <i>et al.</i> , 2009	ad hoc Group report: April 2017	2018
Galaxiidae	<i>Galaxias olidus</i>	mountain galaxias	E	Incomplete	Y	Y	Y	Y	1	Langdon, 1989 (virus later characterised by Becker <i>et al.</i> , 2013)	ad hoc Group report: April 2017	2018
Ictaluridae	<i>Ameiurus melas</i>	black bullhead	E	IFAT	N	Y	Y	Y	1	Gobbo <i>et al.</i> , 2010	ad hoc Group report: April 2017	2018
Melanotaeniidae	<i>Melanotaenia fluviatilis</i>	crimson spotted rainbowfish	E	PCR	N	Y	Y	Y	1	Becker <i>et al.</i> , 2013	ad hoc Group report: April 2017	2018
Percidae	<i>Perca fluviatilis</i>	European perch	N/E	PCR/IFAT	Y	Y	Y	Y	1	Becker <i>et al.</i> , 2013; Borzym <i>et al.</i> , 2015; Langdon <i>et al.</i> , 1986; Langdon, 1989	ad hoc Group report: April 2017	2018

Family	Scientific name	Common name	Stage 1: Route of transmission	Stage 2: Pathogen identification	Stage 3: Evidence of infection				Outcome	References	Source	Year of adoption
					A	B	C	D				
	<i>Sander lucioperca</i>	pike-perch	E	PCR/sequencing	N	Y	Y	Y	1	Jensen <i>et al.</i> , 2011a	ad hoc Group report: April 2017	2018
Percichthyidae	<i>Macquaria australasica</i>	macquarie perch	E	PCR	Y	Y	Y	Y	1	Becker <i>et al.</i> , 2013; Langdon, 1989	ad hoc Group report: April 2017	2018
Poeciliidae	<i>Gambusia holbrooki</i>	eastern mosquito fish	E	PCR	N	Y	Y	Y	1	Becker <i>et al.</i> , 2013	ad hoc Group report: April 2017	2018
	<i>Gambusia affinis</i>	mosquito fish	E	Incomplete	Y	Y	Y	Y	1	Langdon, 1989 (virus later characterised by Becker <i>et al.</i> , 2013)	ad hoc Group report: April 2017	2018
Salmonidae	<i>Oncorhynchus mykiss</i>	rainbow trout	N/E	PCR/IFAT/ELISA	Y	Y	Y	Y	1	Becker <i>et al.</i> , 2016; Borzym <i>et al.</i> , 2015; Langdon <i>et al.</i> , 1988; Langdon, 1989	ad hoc Group report: April 2017	2018
Terapontidae	<i>Bidyanus bidyanus</i>	silver perch	E	PCR	Y	Y	Y	Y	1	Becker <i>et al.</i> , 2013; Langdon, 1989	ad hoc Group report: April 2017	2018
Assessed as incomplete evidence and listed in Section 2.2.2. of Chapter 2.3.2. in the <i>Aquatic Manual</i>												
none known												
Assessed as having PCR positive results but no active infection and listed in the second paragraph of Section 2.2.2. of Chapter 2.3.2. in the <i>Aquatic Manual</i>												
Eleotridae	<i>Mogurnda adspersa</i>	purple spotted gudgeon	E	PCR	N	Y	N	N	3	Becker <i>et al.</i> , 2013	ad hoc Group report: April 2017	
Percichthyidae	<i>Macquaria ambigua</i>	golden perch	E	PCR	N	N	N	N	3	Becker <i>et al.</i> , 2013	ad hoc Group report: April 2017	

Family	Scientific name	Common name	Stage 1: Route of transmission	Stage 2: Pathogen identification	Stage 3: Evidence of infection				Outcome	References	Source	Year of adoption
					A	B	C	D				
	<i>Maccullochella peelii</i>	Murray cod	E/EI	PCR	N	N	N	N	3	Becker <i>et al.</i> , 2013; Langdon, 1989	ad hoc Group report: April 2017	
Plotosidae	<i>Tandanus tandanus</i>	freshwater catfish	EI	PCR	N/A	N/A	N/A	N/A	3	Becker <i>et al.</i> , 2013	ad hoc Group report: April 2017	
Salmonidae	<i>Salmo salar</i>	Atlantic salmon	EI	First report	N/A	N/A	N/A	N/A	3	Langdon <i>et al.</i> , 1988	ad hoc Group report: April 2017	
Assessed as evidence of non-susceptibility (e.g. experimental invasive studies with no evidence of infection)												
Atherinidae	<i>Craterocephalus fulvus</i>	unspotted hardyhead	E	PCR	N	N	N	N	4	Becker <i>et al.</i> , 2013	ad hoc Group report: April 2017	
Cyprinidae	<i>Carassius auratus</i>	goldfish	E	PCR/ sequencing	N	N	N	N	4	Jensen <i>et al.</i> , 2009; Langdon <i>et al.</i> , 1986	ad hoc Group report: April 2017	
	<i>Cyprinus carpio</i>	common carp	E	PCR/ sequencing	N	N	N	N	4	Jensen <i>et al.</i> , 2009	ad hoc Group report: April 2017	
Percichthyidae	<i>Maccullochella macquariensis</i>	trout cod	E	PCR	N	N	N	N	4	Becker <i>et al.</i> , 2013	ad hoc Group report: April 2017	
	<i>Nannoperca australis</i>	southern pigmy perch	E	PCR	N	N	N	N	4	Becker <i>et al.</i> , 2013	ad hoc Group report: April 2017	