

SUSCEPTIBILITY OF CRUSTACEAN SPECIES TO INFECTION WITH INFECTIOUS HYPODERMAL AND HAEMATOPOIETIC NECROSIS VIRUS (IHHNV)

The following table shows the crustacean species assessed against the criteria for susceptibility to infection with infectious hypodermal and haematopoietic necrosis virus (IHHNV) 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

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 9.5.2. of Chapter 9.5. of the <i>Aquatic Code</i>											
<i>Penaeus stylirostris</i>	blue shrimp	Natural, E (per os)	PCR	ISH; TEM	Y	Y	Y	1	Jimenez <i>et al.</i> , 1999; Nunan <i>et al.</i> , 2000; Morales-Covarrubias <i>et al.</i> , 1999	ad hoc Group report: October 2015	2017
<i>Penaeus monodon</i>	giant tiger prawn	Natural, E (per os)	PCR	ISH	N	Y	Y	1	Nunan <i>et al.</i> , 2000; Tang <i>et al.</i> , 2003	ad hoc Group report: October 2015	2017
<i>Penaeus setiferus</i>	northern white shrimp	Natural	PCR	N	N	Y	Y	1	Guzman-Saenz <i>et al.</i> , 2009;	ad hoc Group report: October 2015	2017
<i>Penaeus vannamei</i>	whiteleg shrimp	Natural, E (per os)	PCR	ISH; TEM	Y	Y	Y	1	Jimenez <i>et al.</i> , 1999; Nunan <i>et al.</i> , 2000; Tang <i>et al.</i> , 2000; Tang <i>et al.</i> , 2003	ad hoc Group report: October 2015	2017
<i>Penaeus californiensis</i>	yellowleg shrimp	Natural	PCR	ISH	N	N	Y	1	Lightner, 1996; Macias-Rodriguez <i>et al.</i> , 2014; Pantoja, 1999	ad hoc Group report: October 2015	2017

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 incomplete evidence and listed in Section 2.2.2. of Chapter 2.2.4. in the <i>Aquatic Manual</i>											
<i>Penaeus aztecus</i>	northern brown shrimp	Natural	PCR	N	N	N	Y	2	Guzman-Saenz <i>et al.</i> , 2009	ad hoc Group report: October 2015	2017
Assessed as having PCR positive results but no active infection and listed in the second paragraph of Section 2.2.2. of Chapter 2.2.4. in the <i>Aquatic Manual</i>											
<i>Artemesia longinaris</i>	Argentine stiletto shrimp	Natural	PCR	N	N	N	N	3	Martorelli <i>et al.</i> , 2010	ad hoc Group report: October 2015	2017
<i>Centropomus medius</i>	blackfin snook	Natural	PCR	N	N	N	N	3	Macias-Rodriguez <i>et al.</i> , 2014	ad hoc Group report: October 2015	2017
<i>Callinectes arcuatus</i>	Cuata swimcrab	Natural	PCR	N	N	N	N	3	Macias-Rodriguez <i>et al.</i> , 2014	ad hoc Group report: October 2015	2017
<i>Macrobrachium rosenbergii</i>	giant river prawn	Natural	PCR	ISH (inconclusive)	N	N	N	3	Hsieh <i>et al.</i> , 2006	Aquatic Animals Commission September 2017 Report	2018
<i>Penaeus semisulcatus</i>	green tiger prawn	Natural	N	N	N	N	N	3	Lightner 1996	ad hoc Group report: October 2015	2017
<i>Penaeus japonicus</i>	kuruma prawn	Natural	N	N	N	N	N	3	Lightner 1996	ad hoc Group report: October 2015	2017
<i>Achirus mazatlanus</i>	Mazatlan sole	Natural	PCR	N	N	N	N	3	Macias-Rodriguez <i>et al.</i> , 2014	ad hoc Group report: October 2015	2017
<i>Penaeus duorarum</i>	northern pink shrimp	E	N	N	N	N	N	3	Lightner, 1996	ad hoc Group report: October 2015	2017
<i>Lile stolifera</i>	Pacific piquitinga	Natural	PCR	N	N	N	N	3	Macias-Rodriguez <i>et al.</i> , 2014	ad hoc Group report: October 2015	2017

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>Oreochromis</i> sp.	tilapias	Natural	PCR	N	N	N	N	3	Macias-Rodriguez <i>et al.</i> , 2014	ad hoc Group report: October 2015	2017
<i>Penaeus occidentalis</i>	western white shrimp	Natural	N	N	N	N	N	3	Lightner 1996	ad hoc Group report: October 2015	2017
<i>Gerres cinereus</i>	yellowfin mojarra	Natural	PCR	N	N	N	N	3	Macias-Rodriguez <i>et al.</i> , 2014	ad hoc Group report: October 2015	2017
<i>Hemigrapsus penicillatus</i>		Natural	PCR	N	N	N	N	3	Yang <i>et al.</i> , 2007	ad hoc Group report: October 2015	2017
Assessed as evidence of non-susceptibility (e.g. experimental invasive studies with no evidence of infection)											
none known											