SUSCEPTIBILITY OF CRUSTACEAN SPECIES TO INFECTION WITH *MACROBRACHIUM ROSENBERGII* NODAVIRUS (WHITE TAIL DISEASE)

The following table shows the crustacean species assessed against the criteria for susceptibility to infection with *Macrobrachium rosenbergii* nodavirus (white tail disease) 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	YES:	Demonstrates criterion is met	ND:	Not determined
E:	Experimental (non-invasive)	NO:	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 9.7.2. of Chapter 9.7. of the *Aquatic Code*											
Macrobrachium rosenbergii	giant river prawn	Experimental (immersion, oral, injection); Natural	Northern blotting, RT-PCR, real time RT-PCR, nested RT-PCR, ISH	Yes	Yes	Yes	Yes	1	Hsieh *et al*., 2006; Owens *et al*., 2009 Qian *et al*., 2003; Ravi *et al*., 2009; Sahul Hameed *et al*., 2004a; Sriwongpuk, 2010; Wang *et al*., 2008; Yoganandhan *et al*., 2006; Zhang *et al*., 2004.	*ad hoc* Group report: October 2015	2017
Assessed as incomplete evidence and listed in Section 2.2.2. of Chapter 2.2.6. in the *Aquatic Manual*											
Penaeus vannamei	white leg shrimp	Natural and Experimental (oral)	Nested RT-PCR	No	Yes	Yes	Yes	2	Senapin *et al*., 2012a; Senapin *et al*., 2012b;	*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 2.2.6. in the *Aquatic Manual*											
Notonecta sp	backswimmer	Experimental challenges with C6/36 cells	RT-PCR, nested RT-PCR, TEM	No	yes	No	No	3	Sudhakaran *et al*., 2008	*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				
Cybister sp	beetle	Experimental challenges with C6/36 cells	RT-PCR, Nested RT-PCR, TEM	No	Yes	No	No	3	Sudhakaran *et al*., 2008	*ad hoc* Group report: October 2015	2017
Artemia sp.	brine shrimps	Experimental (oral)	RT-PCR, nested RT-PCR	No	No	No	No	3	Sudhakaran *et al*., 2006	*ad hoc* Group report: October 2015	2017
Aesohna sp.	dragonfly	Experimental challenges with C6/36 cells	RT-PCR, Nested RT-PCR, TEM	No	Yes	No	No	3	Sudhakaran *et al*., 2008	*ad hoc* Group report: October 2015	2017
Penaeus monodon	giant tiger prawn	Natural & experimental infection	RT-PCR	No	Yes	Yes	No	3	Ravi *et al*., 2010; Sudhakaran *et al*., 2006	*ad hoc* Group report: October 2015	2017
Belostoma sp.	giant water bug	Experimental challenges with C6/36 cells	RT-PCR, Nested RT-PCR, TEM	No	Yes	No	No	3	Sudhakaran *et al*., 2008	*ad hoc* Group report: October 2015	2017
Macrobrachium rude	hairy river prawn	Experimental (oral and intramuscularly injection)	RT-PCR	No	No	No	No	3	Ravi *et al*., 2015	*ad hoc* Group report: October 2015	2017
Penaeus indicus	Indian white prawn	Natural & experimental infection	RT-PCR	No	Yes	No	No	3	Ravi *et al*., 2010; Sudhakaran *et al*., 2006	*ad hoc* Group report: October 2015	2017
Penaeus japonicus	kuruma prawn	Experimental (oral & intramuscular injection)	RT-PCR	No	No	No	No	3	Sudhakaran *et al*., 2006	*ad hoc* Group report: October 2015	2017
Macrobrachium malcolmsonii	monsoon river prawn	Experimental (oral and intramuscularly injection)	RT-PCR	No	No	No	No	3	Ravi *et al*., 2015	*ad hoc* Group report: October 2015	2017
Cherax quadricarinatus	red claw crayfish	Experimental (feed & intramuscular injection)	qRT-PCR	No	No	Yes	No	3	Hsieh *et al*., 2011	*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 evidence of non-susceptibility (e.g. experimental invasive studies with no evidence of infection)											
none known											