SUSCEPTIBILITY OF MOLLUSC SPECIES TO INFECTION WITH *PERKINSUS OLSENI*

The following table shows the mollusc species assessed against the criteria for susceptibility to infection with *Perkinsus olseni* 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

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 11.6.2. of Chapter 11.6. of the *Aquatic Code*												
Arcidae	*Anadara kagoshimensis*	half-crenated ark	N	ITS PCR and sequencing	YES	YES	YES	YES	1	Cho *et al.*., 2022	*ad hoc* Group report: Dec 2023	2025
			N	ITS PCR and sequencing	ND	ND	ND	ND	3	Ye *et al.*, 2022		
	Anadara trapezia	no common name	N and E	ITS PCR and sequencing	YES	YES	ND	YES	1	Goggin *et al*., 1989	*ad hoc* Group report: Dec 2023	2025
			N	ITS PCR and sequencing	I	YES	I	NO	2	Dang *et al*., 2015		
Cardiidae	*Tridacna crocea*	crocus giant clam	N	IGS & NTS PCR and sequencing	YES	ND	YES	YES	1	Sheppard & Phillips, 2008	*ad hoc* Group report: Dec 2023	2025
			N	ITS PCR and sequencing	NO	ND	YES	YES	1	WOAH-WAHIS event ID#5517, 2024		
			N	NO (RFTM)	ND	I	ND	ND	NS	Goggin *et al*., 1989		
Haliotidae	*Haliotis iris*	Rainbow abalone	N	PCR and sequencing	ND	ND	YES	YES	1	WOAH-WAHIS event 5889, 2014	Aquatic Animals Commission February 2025 Report	2025
			N	NO	YES	ND	YES	YES	NS	Muznebin *et al*., 2023		
	Haliotis laevigata	greenlip abalone	N and E	ITS PCR and sequencing	YES	YES	ND	YES	1	Goggin *et al*., 1989		2025

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				
			N	NTS PCR and sequencing	ND	ND	ND	ND	3	Murrell *et al*., 2002	*ad hoc* Group report: Dec 2023	
			N	ITS PCR and sequencing	ND	ND	ND	ND	3	Goggin *et al*., 1994		
	Haliotis rubra	blacklip abalone	N	NTS PCR and sequencing	ND	YES	YES	I	1	Lester & Hayward, 2005	*ad hoc* Group report: Dec 2023	2025
			N	ITS PCR and sequencing	I	YES	YES	YES	1	Gudkovs *et al*., 2016		
Margaritidae	*Pinctada fucata*	Japanese pearl oyster	N	ITS PCR and sequencing	NO	YES	NO	YES	1	Sanil *et al*., 2010	*ad hoc* Group report: Dec 2023	2025
			N	ITS PCR and sequencing	ND	ND	ND	ND	3	Yang *et al*., 2022		
Mytilidae	*Mytilus galloprovincialis*	Mediterranean mussel	N	ITS PCR and sequencing	YES	YES	YES	YES	1	Carella *et al*., 2023	*ad hoc* Group report: Dec 2023	2025
			N	ITS PCR and sequencing	I	YES	I	I	2	Itoh *et al*., 2019		
			N	qPCR, ITS PCR and sequencing	NO	ND	NO	NO	3	Ríos-Castro *et al*., 2022		
	Perna canaliculus	New Zealand mussel	N	qPCR, PCR, RFTM, histology	NO	YES	NO	YES	1	Lane *et al*., 2023	*ad hoc* Group report: Dec 2023	2025
			N	ITS PCR and sequencing	ND	ND	ND	YES	2	WOAH-WAHIS event ID#1600, 2014a		
			N	NO (ISH - Moss *et al*., 2006)	YES	ND	YES	YES	NS	Muznebin *et al*., 2023b		
Veneridae	*Austrovenus stutchburyi*	Stutchbury's venus	N	ITS PCR and sequencing	YES	YES	YES	YES	1	Dungan *et al*., 2007	*ad hoc* Group report: Dec 2023	2025
			N	NO (RFTM, histology)	YES	YES	YES	YES	NS	Hine & Diggles, 2002		
	Leukoma jedoensis	Jedo venus	N	ITS and NTS PCR and sequencing	YES	YES	YES	YES	1	Park *et al*., 2006	*ad hoc* Group report: Dec 2023	2025

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				
	Paratapes undulatus	undulate venus	N	sequencing	YES	YES	YES	YES	1	Leethochavalit *et al*., 2004	*ad hoc* Group report: Dec 2023	2025
	Protapes gallus	rooster venus	N	ITS PCR and sequencing	YES	YES	YES	YES	1	Shamal *et al*., 2018	*ad hoc* Group report: Dec 2023	2025
	Proteopitar patagonicus	no common name	N	ITS PCR and sequencing	YES	NO	YES	YES	1	Cremonte *et al*., 2005	*ad hoc* Group report: Dec 2023	2025
	Ruditapes decussatus	grooved carpet shell	N	qPCR	YES	YES	ND	YES	1	Estevao *et al*., 2023	*ad hoc* Group report: Dec 2023	2025
			N	IGS PCR and sequencing	YES	ND	YES	YES	1	Costa *et al*., 2012		
			N	ITS PCR and sequencing	YES	YES	YES	YES	1	Elandaloussi *et al*. 2009a		
			N	ITS PCR and sequencing	YES	YES	YES	YES	1	Casas *et al*., 2002a		
	Ruditapes philippinarum	Japanese carpet clam	N	ITS PCR and sequencing	ND	YES	ND	YES	1	Itoiz *et al*., 2021	*ad hoc* Group report: Dec 2023	2025
			N	ITS PCR and sequencing	YES	YES	YES	YES	1	Pretto *et al*., 2014		
			N	ITS PCR and sequencing	ND	YES	ND	YES	1	Wu *et al*., 2011		
			N	ITS PCR and sequencing	YES	YES	YES	YES	1	Hamagushi *et al*., 1998		
Assessed as incomplete evidence and listed in Section 2.2.2. of Chapter 2.4.6. in the *Aquatic Manual*												
Cardiidae	*Cerastoderma edule*	common edible cockle	N	ITS PCR and sequencing analysis	ND	ND	YES	YES	2	Ríos-Castro *et al*., 2022	*ad hoc* Group report: Dec 2023	2025
Mytilidae	*Mytilus chilensis*	Chilean mussel	N	ITS PCR and sequencing analysis	YES	ND	YES	YES	1	Vázquez *et al*., 2022	*ad hoc* Group report: Dec 2023	2025

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				
Ostreidae	*Crassostrea gasar*	gasar cupped oyster	N	ITS PCR and sequencing analysis	YES	YES	I	YES	1	da Silva *et al*., 2014	*ad hoc* Group report: Dec 2023	2025
			N	NO (PCR, RFTM)	YES	YES	NO	NO	NS	da Silva *et al*., 2016		
	Ostrea angasi	Australian mud oyster	N	qPCR, PCR and sequencing	ND	ND	ND	YES	2	WOAH-WAHIS event ID#1743, 2015	*ad hoc* Group report: Dec 2023	2025
Pectinidae	*Pecten novaezelandiae*	New Zealand scallop	N	PCR and sequencing	ND	ND	ND	YES	2	WOAH-WAHIS event ID#1672, 2014b	*ad hoc* Group report: Dec 2023	2025
Psammobiidae	*Hiatula acuta*	No common name	N	ITS PCR and sequencing analysis	ND	ND	ND	YES	2	Cui *et al*., 2018	*ad hoc* Group report: Dec 2023	2025
Veneridae	*Venerupis corrugata*	corrugated venus	N	ITS PCR and sequencing analysis	ND	ND	ND	NO	3	Ramilo *et al*., 2016	*ad hoc* Group report: Dec 2023	2025
			N	NO (PCR, RFTM, histology)	ND	YES	ND	ND	NS	Balseiro *et al*., 2010		
			EI	NO (infective material from *R. decussatus*)	YES	YES	ND	ND	NS	Rodriguez *et al*., 1994		
			N	NO (RFTM, histology)	ND	YES	YES	YES	NS	Navas *et al*., 1992		
Assessed as having PCR positive results but no active infection and listed in the second paragraph of Section 2.2.2. of Chapter 2.4.6. in the *Aquatic Manual*												
Cardiidae	*Cerastoderma glaucum*	olive green cockle	N	ITS PCR and sequencing analysis	ND	ND	ND	ND	3	Ramilo *et al*., 2015	*ad hoc* Group report: Dec 2023	2025
Chamidae	*Chama pacifica*	reflexed jewel box	N	ITS PCR and sequencing analysis	ND	ND	ND	ND	3	Goggin *et al*., 1994	*ad hoc* Group report: Dec 2023	2025
			N	ITS PCR and sequencing	ND	I	ND	ND	NS	Goggin *et al*., 1989		

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				
Haliotidae	*Haliotis diversicolor*	small abalone	N	ITS PCR and sequencing	ND	ND	ND	ND	3	Yang *et al*., 2022	*ad hoc* Group report: Dec 2023	2025
			N	ITS PCR and sequencing	ND	ND	NO	ND	3	Ye *et al*., 2022		
Isognomonidae	*Isognomon alatus*	flat tree oyster	N	ITS PCR and sequencing	ND	ND	ND	ND	3	Pagenkopp Lohan *et al*., 2016	*ad hoc* Group report: Dec 2023	2025
	Isognomon sp. (origin: Panama)	N/A	N	ITS PCR and sequencing	ND	ND	ND	ND	3	Pagenkopp Lohan *et al*., 2016	*ad hoc* Group report: Dec 2023	2025
Margaritidae	*Pinctada imbricata*	Atlantic pearl oyster	N	ITS PCR and sequencing	ND	ND	ND	ND	3	Pagenkopp Lohan *et al*., 2016	*ad hoc* Group report: Dec 2023	2025
Ostreidae	*Crassostrea rhizophorae*	mangrove cupped oyster	N	ITS PCR and sequencing	ND	ND	ND	ND	3	Pagenkopp Lohan *et al*., 2016	*ad hoc* Group report: Dec 2023	2025
	Dendostrea frons	Frons oyster	N	ITS PCR and sequencing	ND	ND	ND	ND	3	Pagenkopp Lohan *et al*., 2016	*ad hoc* Group report: Dec 2023	2025
	Magallana [Syn. *Crassostrea*] *gigas*	Pacific oyster	N	ITS PCR and sequencing	ND	ND	ND	ND	3	Ye *et al*., 2022	*ad hoc* Group report: Dec 2023	2025
	Magallana [Syn. *Crassostrea*] *hongkongensis*	no common name	N	ITS PCR and sequencing	NO	ND	NO	NO	3	Moss *et al*., 2007	*ad hoc* Group report: Dec 2023	2025
	Saccostrea sp. (origin: Panama)	N/A	N	ITS PCR and sequencing	ND	ND	ND	ND	3	Pagenkopp Lohan *et al*., 2016	*ad hoc* Group report: Dec 2023	2025
Pectinidae	*Mimachlamys crassicostata*	noble scallop	N	ITS PCR and sequencing	ND	ND	ND	ND	3	Yang *et al*., 2022	*ad hoc* Group report: Dec 2023	2025
Pharidae	*Sinonovacula constricta*	constricted tagelus	N	ITS PCR and sequencing	ND	ND	ND	ND	3	Ye *et al*., 2022	*ad hoc* Group report: Dec 2023	2025

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				
Veneridae	*Meretrix lyrata*	lyrate hard clam	N	ITS PCR and sequencing	ND	ND	ND	ND	3	Ye *et al*., 2022	*ad hoc* Group report: Dec 2023	2025
			N	NO (histology)	ND	ND	ND	ND	NS	WOAH-WAHIS event ID #1077, 2011		
	Polititapes aureus	golden carpet shell	N	ITS PCR and sequencing analysis	ND	ND	ND	ND	3	Ramilo *et al*., 2015	*ad hoc* Group report: Dec 2023	2025
			N	NO (RFTM, histology)	ND	YES	YES	YES	NS	Navas *et al*., 1992		
	Venus verrucosa	warty venus	N	ITS PCR and sequencing analysis	I	ND	I	I	3	Ramilo *et al*., 2015	*ad hoc* Group report: Dec 2023	2025
Assessed as evidence of non-susceptibility (e.g. experimental invasive studies with no evidence of infection)												
	none known											