

SUSCEPTIBILITY OF MOLLUSC SPECIES TO INFECTION WITH *MARTEILIA REFRINGENS*

The following table shows the mollusc species assessed against the criteria for susceptibility to infection with *Marteilia refringens* 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 11.4.2. of Chapter 11.4. of the <i>Aquatic Code</i>											
bivalves											
<i>Ostrea edulis</i>	European flat oyster	N	IGS and ITS 1 PCR with ITS 1 sequencing	YES	ND	YES	YES	1	Lopez-San Martin <i>et al.</i> , 2015	ad hoc Group report: June 2022	2023
		N	NO (Histology)	YES	ND	ND	YES	1	Audemard <i>et al.</i> , 2001		
		N	NO (Histology and cytology)	YES	YES	ND	YES	1	Carrasco <i>et al.</i> , 2008b		
		N	ITS 1 PCR, RFLP ITS 1 sequencing	ND	ND	ND	YES	2	Novoa <i>et al.</i> , 2005		
		N	ITS 1 PCR, RFLP ITS 1 sequencing	ND	ND	ND	YES	2	Le Roux <i>et al.</i> , 2001		
<i>Ostrea stentina</i>	dwarf oyster	N	IGS and ITS 1 PCR, RFLP, ITS 1 and IGS sequencing	YES	ND	I	YES	1	Elgharsalli <i>et al.</i> , 2013	ad hoc Group report: June 2022	2023
		N	IGS and ITS 1 PCR, only ITS 1 sequencing	YES	ND	YES	YES	1	Lopez-SanMartin <i>et al.</i> , 2015		

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>Mytilus edulis</i>	blue mussel	N	ITS1 RFLP, IGS PCR, sequencing and Histology	YES	ND	YES	YES	1	Bøgwald <i>et al.</i> , 2022	ad hoc Group report: June 2022	2023
<i>Mytilus galloprovincialis</i>	Mediterranean mussel	N	ITS 1 PCR, IGS, RFLP and sequencing	YES	ND	ND	YES	1	Arzul <i>et al.</i> , 2014	ad hoc Group report: June 2022	2023
		N	IGS, ITS 1 PCR and sequencing	YES	ND	NO	YES	1	Gombac <i>et al.</i> , 2014		
		N	IGS PCR and sequencing	YES	ND	ND	YES	1	Carrasco <i>et al.</i> , 2007b		
<i>Xenostrobus securis</i>	golden mussel	N	IGS and ITS 1 PCR and sequencing	YES	ND	ND	YES	1	Pascual <i>et al.</i> , 2010	ad hoc Group report: June 2022	2023
<i>Solen marginatus</i>	European razor clam	N	IGS PCR and sequencing	YES	ND	ND	YES	1	Lopez-Flores <i>et al.</i> , 2008a	ad hoc Group report: June 2022	2023
		N	NO (Histology)	YES	ND	ND	YES	NS	Lopez & Darriba, 2006		
<i>Chamelea gallina</i>	striped venus	N	IGS sequence, Histology ISH	YES	ND	I	YES	1	Lopez-Flores <i>et al.</i> , 2008b	ad hoc Group report: June 2022	2023
Assessed as incomplete evidence and listed in Section 2.2.2. of Chapter 2.4.4. in the <i>Aquatic Manual</i>											
bivalves											
<i>Ostrea chilensis</i>	Chilean flat oyster	N	Histology	YES	ND	I	YES	1	Grizel <i>et al.</i> , 1983	ad hoc Group report: June 2022	2023
<i>Ostrea denselamellosa</i>	Japanese flat oyster	N	Histology	ND	ND	I	YES	2	Martin, 1993	ad hoc Group report: June 2022	2023
crustacea											
<i>Paracartia grani</i>	no common name	N	PCR IGS and sequencing	YES	ND	ND	YES	1	Arzul <i>et al.</i> , 2014	ad hoc Group report: June 2022	2023

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 having PCR positive results but no active infection and listed in the second paragraph of Section 2.2.2. of Chapter 2.4.4. in the <i>Aquatic Manual</i>											
bivalves											
<i>Magallana</i> (syn. <i>Crassostrea</i>) <i>gigas</i>	Pacific cupped oyster	N	nested PCR IGS and sequencing	ND	ND	ND	YES	3	Grijalva-Chon <i>et al.</i> , 2015	ad hoc Group report: June 2022	2023
		N	NO (Histology)	NO	NO	YES	YES	NS	Cahour, 1979		
<i>Crassostrea</i> <i>corteziensis</i>	Cortez oyster	N	nested PCR IGS and sequencing	ND	ND	ND	YES	3	Grijalva-Chon <i>et al.</i> , 2015	ad hoc Group report: June 2022	2023
<i>Ruditapes</i> <i>decussatus</i>	grooved carpet shell	N	ITS 1 PCR and nested PCR IGS and sequencing	NO	ND	NO	YES	3	Boyer <i>et al.</i> , 2013	ad hoc Group report: June 2022	2023
crustacea											
<i>Acartia</i> <i>discaudata</i>	no common name	N	PCR targeting IGS and sequencing	ND	ND	ND	ND	3	Carrasco <i>et al.</i> , 2007b	ad hoc Group report: June 2022	2023
<i>Centropages</i> <i>typicus</i>	no common name	N	ITS 1 PCR, IGS, RFLP and sequencing	ND	ND	ND	NO	3	Arzul <i>et al.</i> , 2014	ad hoc Group report: June 2022	2023
<i>Euterpina</i> <i>acutifrons</i>	no common name	N	NO (PCR 18S with SS2/SAS1 primers)	ND	ND	ND	NO	NS	Audemard <i>et al.</i> , 2002	ad hoc Group report: June 2022	2023
		N	PCR targeting IGS and sequencing	ND	ND	ND	ND	NS	Carrasco <i>et al.</i> , 2007b		
<i>Oithona</i> sp. (FRANCE)	no common name	N	PCR targeting IGS. ISH negative	ND	ND	ND	NO	3	Arzul <i>et al.</i> , 2014	ad hoc Group report: June 2022	2023
<i>Oithona</i> sp. (SPAIN)	no common name	N	PCR targeting IGS and sequencing	ND	ND	ND	ND	3	Carrasco <i>et al.</i> , 2007b	ad hoc Group report: June 2022	2023
<i>Penilia</i> <i>avirostris</i>	no common name	N	PCR targeting ITS and IGS. RFLP	ND	ND	ND	NO	3	Arzul <i>et al.</i> , 2014	ad hoc Group report: June 2022	2023

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											