

## SUSCEPTIBILITY OF FISH SPECIES TO INFECTION WITH TILAPIA LAKE VIRUS

The following table shows the fish species assessed against the criteria for susceptibility to infection with tilapia lake 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	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 10.11.2. of Chapter 10.11. of the <i>Aquatic Code</i>												
Cichlidae	<i>Oreochromis aureus</i> x <i>O. niloticus</i>	blue-Nile tilapia hybrid	N	RT-qPCR, SYBR green RT-qPCR and sequence analysis	ND	YES	ND	YES	1	Abbadi <i>et al.</i> , 2023	<a href="#">ad hoc Group report: April 2023</a>	2024
			N	nested RT-PCR and SYBR green RT-qPCR	ND	YES	ND	YES	1	Tsofack <i>et al.</i> , 2016		
			N	RT-PCR and sequence analysis	I	I	YES	YES	1	Eyngor <i>et al.</i> , 2014		
	<i>Oreochromis mossambicus</i>	Mozambique tilapia	N	RT-PCR and sequence analysis	ND	YES	YES	YES	1	Suresh <i>et al.</i> , 2023	<a href="#">ad hoc Group report: April 2023</a>	2024
	<i>Oreochromis niloticus</i>	Nile tilapia	N	RT-PCR and sequence analysis	ND	ND	YES	YES	1	Chaput <i>et al.</i> , 2020	<a href="#">ad hoc Group report: April 2023</a>	2024
			N	RT-PCR and sequence analysis	ND	YES	YES	YES	1	Behera <i>et al.</i> , 2018		
N			RT-PCR and sequence analysis	YES	ND	YES	YES	1	del-Pozo <i>et al.</i> , 2016			

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>Oreochromis niloticus</i> x <i>O. mossambicus</i>	red hybrid tilapia	N	RT-PCR and sequence analysis	ND	ND	YES	YES	1	Amal <i>et al.</i> , 2018	<a href="#">ad hoc Group report: April 2023</a>	2024
	<i>Sarotherodon galilaeus</i>	mango tilapia	N	RT-PCR and sequence analysis	YES	YES	YES	YES	1	Eyngor <i>et al.</i> , 2014	<a href="#">ad hoc Group report: April 2023</a>	2024
Assessed as incomplete evidence and listed in Section 2.2.2. of Chapter 2.2.X. in the <i>Aquatic Manual</i>												
Cyprinidae	<i>Barbonymus schwanenfeldii</i>	tinfoil barb	N	RT-PCR and sequence analysis	ND	YES	I	YES	1	Abdullah <i>et al.</i> , 2022	<a href="#">ad hoc Group report: April 2023</a>	2024
			N	RT-PCR and sequence analysis	ND	ND	ND	YES	3	Abdullah <i>et al.</i> , 2018		
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.X. in the <i>Aquatic Manual</i>												
Cichlidae	<i>Oreochromis aureus</i>	blue tilapia	N	RT-PCR and sequence analysis <sup>7</sup>	I	I	YES	I	3	Eyngor <i>et al.</i> , 2014	<a href="#">ad hoc Group report: April 2023</a>	2024
	<i>Tilapia zillii</i>	redbelly tilapia	N	RT-PCR and sequence analysis <sup>7</sup>	I	I	YES	I	3	Eyngor <i>et al.</i> , 2014	<a href="#">ad hoc Group report: April 2023</a>	2024
	<i>Tristramella simonis</i>	Tvarnun simon	N	RT-PCR and sequence analysis <sup>7</sup>	I	I	YES	I	3	Eyngor <i>et al.</i> , 2014	<a href="#">ad hoc Group report: April 2023</a>	2024
Latidae	<i>Lates calcarifer</i>	barramundi	N	RT-PCR and sequence analysis	ND	ND	NO	YES	3	Piamsomboon & Wongtavatchal, 2021	<a href="#">ad hoc Group report: April 2023</a>	2024
Osphronemidae	<i>Osphronemus goramy</i>	giant gourami	N	RT-PCR and sequence analysis	ND	ND	ND	ND <sup>8</sup>	3	Chiamkunakorn <i>et al.</i> , 2019	<a href="#">ad hoc Group report: April 2023</a>	2024
Assessed as evidence of non-susceptibility (e.g. experimental invasive studies with no evidence of infection)												
	none known											