

Table 5 Morphological and biochemical characteristics of isolates of gill, liver and intestine

Weeks	Isolate code	Cell shape	Gram reaction	Catalase	TSI reaction	Urease	Motility test	H ₂ S test	Citrate reaction	Methyl red	Hemolysis	Glucose	Mannitol	Oxidase reaction	Possible organisms
0	FGctr	SR	-	+	-	-	+	-	+	-	B	+	+	+	presumptive Plesiomonas shigelloides
	FGTii	SR	-	+	-	-	+	-	+	-	B	-	+	+	presumptive Plesiomonas shigelloides
	FITv	SR	-	+	-	-	+	-	+	-	B	-	+	+	presumptive Plesiomonas shigelloides
	FITiv	SR	-	+	-	-	+	-	+	-	B	+	+	+	presumptive Plesiomonas shigelloides
	FLTiii	SR	-	-	-	-	-	-	-	-	B	+	+	+	presumptive Plesiomonas shigelloides
4	GGTii	SR	-	+	-	-	+	-	+	-	B	-	+	+	presumptive Plesiomonas shigelloides
	GGTiii	SR	-	+	-	-	+	-	+	-	B	-	+	+	presumptive Plesiomonas shigelloides
	GGTiv	SR	-	+	-	-	+	-	+	-	B	+	+	+	presumptive Plesiomonas shigelloides
	GGTv	SR	-	+	-	-	+	-	+	-	B	-	+	+	presumptive Plesiomonas shigelloides
	GIctr	SR	-	-	-	-	-	-	-	-	B	+	+	+	presumptive Plesiomonas shigelloides
	GITiv	SR	-	+	-	-	+	-	+	-	B	-	+	+	presumptive Plesiomonas shigelloides
	GITv	SR	-	-	-	-	-	-	-	-	B	+	+	+	presumptive Plesiomonas shigelloides
	GLctr	SR	-	-	-	-	-	-	-	-	B	+	+	+	presumptive Plesiomonas shigelloides
	GLTii	SR	-	+	-	-	+	-	+	-	B	+	+	+	presumptive Plesiomonas shigelloides
	GLTv	SR	-	+	-	-	+	-	+	-	B	-	+	+	presumptive Plesiomonas shigelloides
8	HGTii	SR	-	-	-	-	-	-	-	-	B	+	+	+	presumptive Plesiomonas shigelloides
	HGTv	SR	-	-	-	-	-	-	-	-	B	+	+	+	presumptive Plesiomonas shigelloides
	HGTvi	SR	-	-	-	-	-	-	-	-	B	+	+	+	presumptive Plesiomonas shigelloides
	HITiii	SR	-	+	-	-	+	-	+	-	B	-	+	+	presumptive Plesiomonas shigelloides
	HLTii	SR	-	+	-	-	+	-	+	-	B	-	+	+	presumptive Plesiomonas shigelloides
	HITiv	SR	-	+	-	-	+	-	+	-	B	+	+	+	presumptive Plesiomonas shigelloides
	HLctr	SR	-	+	-	-	+	-	+	-	B	+	+	+	presumptive Plesiomonas shigelloides
	HLctr	SR	-	-	-	-	-	-	-	-	B	+	+	+	presumptive Plesiomonas shigelloides
	HLTii	SR	-	+	-	-	+	-	+	-	B	-	+	+	presumptive Plesiomonas shigelloides
	HLTvi	SR	-	+	-	-	+	-	+	-	B	-	+	+	presumptive Plesiomonas shigelloides

FG, fish gills at 0 weeks; FI, fish intestine at 0 weeks; FL; fish liver at 0 weeks; GG, fish gill at 4 weeks; GI, fish intestine at 4 weeks, GL, fish liver at 4 weeks, HG, fish gill at 8 weeks, HI, fish intestine at 8 weeks; HL, fish liver at 8 weeks; Ctr, experimental pond 1; Tii, experimental pond 2; Tiii, experimental pond 3; Tiv, experimental pond 4; Tv, experimental pond 5; Tvi, experimental pond 6; SR, Short rod; +, Positive; β, Beta; -, Negative