

Supplementary Table S1: Minimum inhibitory concentrations (MIC) of Cd²⁺ against isolated *Salmo trutta* fry gut bacteria at pH 7.0.

Genus/species	Isolates No.	Sequences similarity (%)	MIC of Cd ²⁺ , mg/L (mM)			
			15 °C	Zone of inhibition mm (mean ± SD)	25 °C	Zone of inhibition mm (mean ± SD)
Gram-positive bacteria:						
<i>Carnobacterium maltaromaticum</i>	ST6	100	60 (0.53)	9.7 ± 0.5	50 (0.44)	10.1 ± 0.6
<i>C. maltaromaticum</i>	ST17	100	30 (0.27)	7.7 ± 0.5	30 (0.27)	7.6 ± 0.2
<i>Listeria</i> sp.	ST19	99	20 (0.18)	8.6 ± 0.2	10 (0.09)	8.6 ± 0.2
<i>Microbacterium</i> sp.	ST5	99	350 (3.11)	8.1 ± 0.2*	370 (3.29)	7.4 ± 0.2
Gram-negative bacteria:						
<i>Aeromonas</i> sp.	AL8	100	80 (0.71)	7.7 ± 0.5*	80 (0.71)	6.7 ± 0.5
<i>Aeromonas</i> sp.	ST11	99	50 (0.44)	7.2 ± 0.4	50 (0.44)	7.5 ± 0.6
<i>Aeromonas</i> sp.	ST15	99	50 (0.44)	6.9 ± 0.1	50 (0.44)	7.0 ± 0.2
<i>A. popoffii</i>	AL2	99	60 (0.53)	7.7 ± 0.5	60 (0.53)	7.3 ± 0.4
<i>A. salmonicida</i>	AL13	99	70 (0.62)	6.7 ± 0.5	70 (0.62)	7.4 ± 0.5
<i>A. salmonicida</i>	AL20	99	80 (0.71)	6.2 ± 0.1	80 (0.71)	6.7 ± 0.5
<i>A. salmonicida</i>	ST8	99	70 (0.62)	7.7 ± 0.5	80 (0.71)	7.7 ± 0.5
<i>A. salmonicida</i>	ST9	99	70 (0.62)	8.0 ± 0.1*	70 (0.62)	7.6 ± 0.1
<i>A. salmonicida</i>	ST16	99	60 (0.53)	7.9 ± 0.2*	60 (0.53)	7.5 ± 0.3
<i>A. sobria</i>	AL10	99	70 (0.62)	7.3 ± 0.4	70 (0.62)	7.5 ± 0.2
<i>A. sobria</i>	ST3	99	60 (0.53)	7.2 ± 0.0*	60 (0.53)	8.6 ± 0.2
<i>A. sobria</i>	ST4	99	60 (0.53)	8.4 ± 0.5	60 (0.53)	7.7 ± 0.5
<i>A. sobria</i>	ST7	99	70 (0.62)	7.2 ± 0.2*	70 (0.62)	8.1 ± 0.2
<i>A. sobria</i>	ST12	99	70 (0.62)	7.0 ± 0.3	70 (0.62)	7.1 ± 0.2
<i>A. sobria</i>	ST18	99	60 (0.53)	7.7 ± 0.5*	70 (0.62)	6.7 ± 0.5
<i>Buttiauxella</i> sp.	ST32	99	70 (0.62)	7.1 ± 0.1*	70 (0.62)	6.7 ± 0.1
<i>Serratia</i> sp.	ST33	98	50 (0.44)	7.5 ± 0.4	60 (0.53)	7.3 ± 0.5
<i>Shewanella putrefaciens</i>	AL18	99	80 (0.71)	6.7 ± 0.4*	80 (0.71)	7.4 ± 0.4
<i>S. putrefaciens</i>	ST1	99	60 (0.53)	7.5 ± 0.4	60 (0.53)	7.0 ± 0.3
<i>S. putrefaciens</i>	ST10	99	60 (0.53)	6.8 ± 0.2*	60 (0.53)	7.6 ± 0.2
<i>S. putrefaciens</i>	ST13	99	60 (0.53)	7.9 ± 0.2*	60 (0.53)	7.4 ± 0.2
<i>S. putrefaciens</i>	ST14	99	60 (0.53)	7.2 ± 0.3	70 (0.62)	7.6 ± 0.3

*Statistically significant differences of MIC inhibition zones mm, p ≤ 0.05