

Supplementary material

Figure S1: Fish with clinical signs of ulcerative skin lesions (A - *Carassius auratus*, C - *Cyprinus carpio* var. koi), septicemia (B - *Cyprinus carpio* var. koi) and ocular lesion (D - *Carassius auratus* with exophthalmia and corneal opacity).

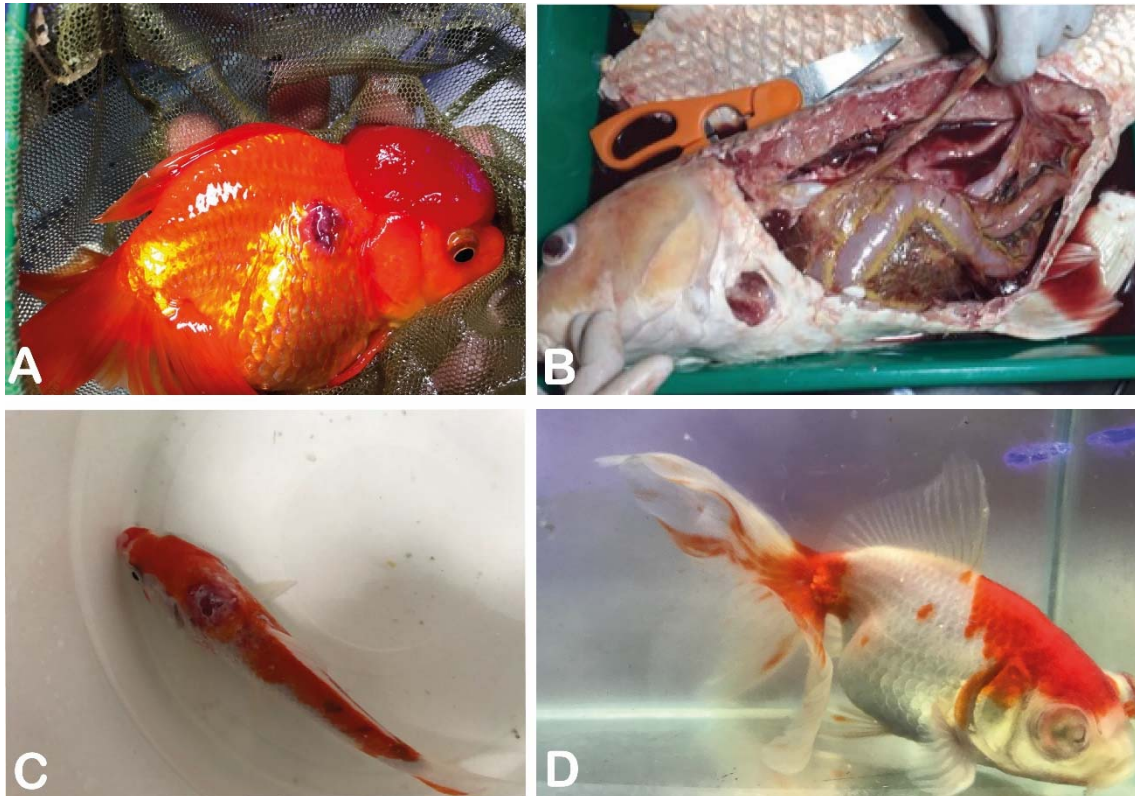


Table S1: Primers used to *Aeromonas* species identification and detection of virulence genes.

Gene	Target	Primer Sequence (5' – 3')	Amplicon (pb)	Reference
<i>gyrB</i>	<i>A. caviae</i>	TGCTGCTGACCATCCGC GGTGCCTGCGGCTCG	70	[13]
<i>ahaI</i>	<i>A. hydrophila</i>	GAGAAGGTGACCACCAAGAACA GAGATGTCAGCCTTGTAGAGCT	200	[14]
<i>rpoB</i>	<i>A. veronii</i>	CGTGCCGGCTTTGAAGTC GATCACGTACTTGCCTTCTTCAATA	224	[13]
<i>act</i>	Cytotoxic enterotoxin	AGAAGGTGACCACCAAGAACA AACTGACATCGGCCTTGAAGTC	232	[48]
<i>aer</i>	Aerolysin	CCTATGGCCTGAGCGAGAAG CCAGTTCCAGTCCCACCACT	431	[49]
<i>alt</i>	Heat-labile cytotoxic enterotoxin	AAAGCGTCTGACAGCGAAGT AGCGCATAGGCGTTCTCTT	320	[50]
<i>ast</i>	Heat-stable cytotoxic enterotoxin	ATCGTCAGCGACAGCTTCTT CTCATCCCTTGGCTTGTTGT	504	[50]
<i>fla</i>	Flagellin	TCCAACCGTYTGACCTC GMYTGTTGCGRATGGT	608	[49]
<i>hlyA</i>	Hemolysin	ATGAGTTTTGCCGATAGTTTATTTTTCCTGA TTACGATTCCTGAGCGGGCTTGTCGGCCGGCG TG	1320	[51]

Table S2: Antimicrobials evaluated and respective concentrations and applied cutoff points.

Antimicrobial	Concentration (µg/mL)	CLSI breakpoints ¹		
		Susceptible	Intermediate	Resistant
Cefepime	30	≥25	19-24	≤18
Cefoxitin	30	≥18	15-17	≤14
Ceftazidime	30	≥21	18-20	≤17
Ceftriaxone	30	≥23	20-22	≤19
Imipenem	10	≥23	20-22	≤19
Piperacillin-tazobactam	110	≥21	18-20	≤17
Tetracycline	30	≥15	12-14	≤11
Enrofloxacin ²	5	≥23	17-22	≤16
Ciprofloxacin	5	≥21	16-20	≤15
Amikacin	30	≥17	15-16	≤14
Gentamicin ²	10	≥16	13-15	≤12
Erythromycin	15	≥23	14-22	≤13
Chloramphenicol	30	≥18	13-17	≤12
Florfenicol ²	30	≥22	19-21	≤18
Sulfonamide	300	≥17	13-16	≤12
Trimethoprim-sulfamethoxazole	25	≥16	11-15	≤10
Antimicrobial	Concentration (µg/mL)	ECOFF cutoff points ³		
		Wild Type	Non-Wild Type	
Enrofloxacin	5	≥32	≤31	
Florfenicol	30	≥25	≤24	
Gentamicin	10	≥19	≤18	

¹ CLSI - M100, 32nd ed [20]. ² CLSI - VET 01S – 5th ed [23]. ³ CLSI - VET04, 3rd ed [19].