

Table 17 Tukey's HSD analysis of morphometric parameters of fish fed with control and Chitosan mixed diets under normal and *Aeromonas hydrophila* infection

S. No.	Pairwise comparison	Tukey's HSD	Q – value	p – value
1	T1 : T2	0.29	0.19	0.99917 ^{NS}
2	T1 : T3	0.64	0.42	0.99077 ^{NS}
3	T1 : T4	0.17	0.11	0.99982 ^{NS}
4	T2 : T3	0.93	0.61	0.97320 ^{NS}
5	T2 : T4	0.46	0.30	0.99602 ^{NS}
6	T3 : T4	0.47	0.31	0.99630 ^{NS}

T1 – Healthy fish fed with control diet

T2 - *Aeromonas* infected fish fed with control diet

T3 – Healthy fish fed with Chitosan mixed diet

T4 – *Aeromonas* infected fish fed with Chitosan mixed diet

Q-value - studentized range statistic value

$p < 0.05$ - Significant

p -value* = Significant, p -value** = highly significant, p -value*** = extremely significant,

p -value^{NS} = Not Significant

Table 18 Comparative morphometric parameters of fish fed with control and Levamisole mixed diets under normal and *Aeromonas hydrophila* infection

S. No.	Morphometric parameter	Control feed		Chitosan feed	
		Healthy fish (T1)	<i>Aeromonas</i> infected fish (T2)	Healthy fish (T3)	<i>Aeromonas</i> infected (T4)
1	BL (cm)	1.4	1.3	1.8	1.5
2	BW (cm)	0.7	0.4	0.6	0.4
3	W (g)	18.7	15.6	30.8	26
4	HL (cm)	0.5	0.6	0.6	0.4
5	HD (cm)	0.5	0.5	0.7	0.4
6	ED (cm)	0.2	0.2	0.1	0.1
7	PD (cm)	0.1	0.1	0.1	0.1
8	CPL (cm)	0.7	0.5	0.4	0.3
9	CPW (cm)	0.2	0.3	0.4	0.4
10	CFL (cm)	0.4	0.3	0.5	0.4
11	DFL (cm)	0.5	0.4	0.4	0.5
12	PcFL (cm)	0.5	0.4	0.5	0.4
13	PIFL (cm)	0.4	0.4	0.5	0.5
14	AFL (cm)	0.4	0.2	0.5	0.2

Table 19 One-way ANOVA analysis of morphometric parameters of fish fed with control and Levamisole mixed diets under normal and *Aeromonas hydrophila* infection

Control diet/ Levamisole mixed diet	SS	DF	MS	F – value
Between groups	11.5177	3	3.8392	0.10062
Within groups	1984.0807	52	38.1554	
Total	1995.5984	55		

SS - Sum of Squares,

DF - Degrees of Freedom,

MS - Mean Squares,

F-value -- variation between mean values