

Table 14 Tukey's HSD analysis of morphometric parameters of fish fed with control and Chitin mixed diets under normal and *Aeromonas hydrophila* infection

S. No.	Pairwise comparisons	Tukey's HSD	Q – value	p – value
1	T1 : T2	0.29	0.23	0.99841 ^{NS}
2	T1 : T3	0.24	0.20	0.99902 ^{NS}
3	T1 : T4	0.10	0.08	0.99993 ^{NS}
4	T2 : T3	0.04	0.03	0.99999 ^{NS}
5	T2 : T4	0.39	0.31	0.99612 ^{NS}
6	T3 : T4	0.34	0.28	0.99726 ^{NS}

T1 – Healthy fish fed with control diet,

T2 - *Aeromonas* infected fish fed with control diet,

T3 – Healthy fish fed with Chitin mixed diet,

T4 – *Aeromonas* infected fish fed with Chitin 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 15 Comparative morphometric parameters of fish fed with control and Chitosan 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 fish (T4)
1	BL (cm)	1.4	1.3	1.9	1.5
2	BW (cm)	0.7	0.4	0.4	0.3
3	W (g)	18.7	15.6	28.1	22.8
4	HL (cm)	0.5	0.6	0.4	0.2
5	HD (cm)	0.5	0.5	0.3	0.2
6	ED (cm)	0.2	0.2	0.1	0.1
7	PD (cm)	0.1	0.1	0.2	0.1
8	CPL (cm)	0.7	0.5	0.3	0.4
9	CPW (cm)	0.2	0.3	0.1	0.3
10	CFL (cm)	0.4	0.3	0.6	0.4
11	DFL (cm)	0.5	0.4	0.5	0.3
12	PcFL (cm)	0.5	0.4	0.5	0.2
13	PIFL (cm)	0.4	0.4	0.4	0.5
14	AFL (cm)	0.4	0.2	0.4	0.3

Table 16 One-way ANOVA analysis of morphometric parameters of fish fed with control and Chitosan mixed diets under normal and *Aeromonas hydrophila* infection

Source	SS	DF	MS	F – value
Between groups (Treatment)	6.3621	3	2.1207	0.06473
Within groups	1703.72	52	32.7638	
Total	1710.0821	55		

SS - Sum of Squares,

DF - Degrees of Freedom,

MS - Mean Squares,

F-value -- variation between mean values