

APPENDIX

Table-A : Showing the individual values of Body weight (gms) in three groups, prior to feeding (Day '0').

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Body weight in(gms)	Animal No.	Body weight in(gms)	Animal No.	Body weight in(gms)
C ₁	150	L ₁	145	H ₁	145
C ₂	165	L ₂	160	H ₂	160
C ₃	152	L ₃	148	H ₃	152
C ₄	155	L ₄	154	H ₄	152
C ₅	145	L ₅	150	H ₅	155
C ₆	158	L ₆	147	H ₆	148
C ₇	160	L ₇	155	H ₇	165
C ₈	155	L ₈	158	H ₈	150
C ₉	160	L ₉	155	H ₉	160
C ₁₀	155	L ₁₀	160	H ₁₀	150
C ₁₁	150	L ₁₁	148	H ₁₁	150
C ₁₂	155	L ₁₂	165	H ₁₂	160
C ₁₃	150	L ₁₃	155	H ₁₃	152
C ₁₄	165	L ₁₄	150	H ₁₄	160
C ₁₅	155	L ₁₅	150	H ₁₅	155

Table - B : Showing the individual values of Body weight (gms) in three groups, post 7 days of feeding.

Group I (Control)		Group II (10% Protein)		Group III (20 Protein)	
Animal No.	Body weight in (gms)	Animal No.	Body weight in(gms)	Animal No.	Body weight in (gms)
C ₁	159	L ₁	151	H ₁	153
C ₂	174	L ₂	167	H ₂	170
C ₃	160	L ₃	154	H ₃	161
C ₄	163	L ₄	159	H ₄	162
C ₅	153	L ₅	156	H ₅	164
C ₆	168	L ₆	153	H ₆	157
C ₇	139	L ₇	161	H ₇	174
C ₈	164	L ₈	164	H ₈	158
C ₉	171	L ₉	163	H ₉	171
C ₁₀	165	L ₁₀	168	H ₁₀	159
C ₁₁	159	L ₁₁	154	H ₁₁	158
C ₁₂	165	L ₁₂	173	H ₁₂	170
C ₁₃	161	L ₁₃	162	H ₁₃	159
C ₁₄	174	L ₁₄	155	H ₁₄	172
C ₁₅	166	L ₁₅	157	H ₁₅	164

Table - C : Showing the individual values of Body weight
(gms) in three groups, post 14 days of feeding

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Body weight in(gms)	Animal No.	Body weight in(gms)	Animal No.	Body weight in (gms)
C ₁	170	L ₁	156	H ₁	162
C ₂	187	L ₂	174	H ₂	182
C ₃	172	L ₃	161	H ₃	172
C ₄	172	L ₄	164	H ₄	173
C ₅	163	L ₅	163	H ₅	175
C ₆	179	L ₆	159	H ₆	167
C ₇	181	L ₇	167	H ₇	183
C ₈	174	L ₈	170	H ₈	167
C ₉	184	L ₉	172	H ₉	182
C ₁₀	177	L ₁₀	177	H ₁₀	169
C ₁₁	169	L ₁₁	161	H ₁₁	167
C ₁₂	177	L ₁₂	181	H ₁₂	181
C ₁₃	173	L ₁₃	170	H ₁₃	167
C ₁₄	185	L ₁₄	160	H ₁₄	183
C ₁₅	175	L ₁₅	164	H ₁₅	147

Table - D : Showing the individual values of Body weight
(gms) in three groups, post 21 days of feeding.

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Body weight in (gms)	Animal No.	Body weight in(gms)	Animal No.	Body weight in (gms)
C ₁	181	L ₁	161	H ₁	171
C ₂	198	L ₂	180	H ₂	192
C ₃	184	L ₃	167	H ₃	182
C ₄	183	L ₄	170	H ₄	184
C ₅	171	L ₅	169	H ₅	185
C ₆	188	L ₆	165	H ₆	176
C ₇	190	L ₇	174	H ₇	194
C ₈	185	L ₈	176	H ₈	175
C ₉	194	L ₉	182	H ₉	193
C ₁₀	187	L ₁₀	186	H ₁₀	180
C ₁₁	178	L ₁₁	167	H ₁₁	176
C ₁₂	187	L ₁₂	190	H ₁₂	192
C ₁₃	182	L ₁₃	176	H ₁₃	174
C ₁₄	194	L ₁₄	166	H ₁₄	194
C ₁₅	184	L ₁₅	171	H ₁₅	185

Table - E : Showing the individual values of Body weight
(gms) in three groups, post 25 days of feeding.

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Body weight in(gms)	Animal No.	Body weight in(gms)	Animal No.	Body weight in (gms)
C ₁	185	L ₁	165	H ₁	175
C ₂	205	L ₂	185	H ₂	198
C ₃	190	L ₃	170	H ₃	187
C ₄	190	L ₄	174	H ₄	190
C ₅	175	L ₅	172	H ₅	190
C ₆	196	L ₆	170	H ₆	180
C ₇	198	L ₇	180	H ₇	200
C ₈	190	L ₈	180	H ₈	180
C ₉	200	L ₉	185	H ₉	200
C ₁₀	193	L ₁₀	192	H ₁₀	185
C ₁₁	185	L ₁₁	170	H ₁₁	180
C ₁₂	192	L ₁₂	195	H ₁₂	198
C ₁₃	188	L ₁₃	180	H ₁₃	180
C ₁₄	200	L ₁₄	170	H ₁₄	200
C ₁₅	190	L ₁₅	175	H ₁₅	190

Table - I : Showing the individual values of Body weight gain (gms) in different groups.

Group I Control		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Body weight in gms.	Animal No.	Body weight in gms.	Animal No.	Body weight in gms.
C 1	35	L ₁	20	H ₁	30
C 2	40	L ₂	25	H ₂	38
C 3	38	L ₃	22	H ₃	35
C 4	35	L ₄	20	H ₄	38
C 5	30	L ₅	22	H ₅	35
C 6	38	L ₆	23	H ₆	32
C 7	38	L ₇	22	H ₇	35
C 8	35	L ₈	22	H ₈	30
C 9	40	L ₉	30	H ₉	40
C 10	38	L ₁₀	32	H ₁₀	35
C 11	35	L ₁₁	22	H ₁₁	30
C 12	37	L ₁₂	30	H ₁₂	38
C 13	38	L ₁₃	25	H ₁₃	28
C 14	35	L ₁₄	20	H ₁₄	40
C 15	35	L ₁₅	25	H ₁₅	35
Total	547	-	360	-	519
Mean	36.46	-	24	-	34.6

Table - G : Showing the individual values of Liver weight
(gms) in different group, post 25 days of feeding.

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Liver weight in (gms)	Animal No.	Liver weight in (gms)	Animal No.	Liver weight in (gms)
C ₁	6.4	L ₁	5.1	H ₁	5.8
C ₂	8.2	L ₂	5.9	H ₂	8.8
C ₃	9.1	L ₃	5.6	H ₃	7.2
C ₄	8.5	L ₄	6.0	H ₄	6.5
C ₅	5.6	L ₅	5.2	H ₅	6.8
C ₆	9.9	L ₆	6.2	H ₆	6.2
C ₇	9.5	L ₇	6.5	H ₇	9.8
C ₈	6.8	L ₈	5.5	H ₈	6.5
C ₉	10.4	L ₉	7.5	H ₉	10.2
C ₁₀	7.9	L ₁₀	7.2	H ₁₀	5.8
C ₁₁	6.8	L ₁₁	5.2	H ₁₁	6.8
C ₁₂	8.6	L ₁₂	6.4	H ₁₂	8.5
C ₁₃	6.3	L ₁₃	6.2	H ₁₃	7.5
C ₁₄	9.6	L ₁₄	6.1	H ₁₄	10.5
C ₁₅	9.8	L ₁₅	6.5	H ₁₅	8.5
Total	123.4		91.1		115.4
Mean	8.22		6.07		7.69

Table-H : Showing the Haemoglobines (Gm%) of individual animal of three groups, prior to feeding (Day '0')

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Hb(gm%)	Animal No.	Hb(gm%)	Animal No.	Hb(gm%)
C ₁	11.6	L ₁	13.1	H ₁	12.5
C ₂	14.2	L ₂	12.8	H ₂	16.2
C ₃	14.5	L ₃	11.5	H ₃	14.8
C ₄	15.4	L ₄	14.5	H ₄	15.5
C ₅	15.8	L ₅	15.2	H ₅	14.5
C ₆	14.9	L ₆	15.8	H ₆	16.5
C ₇	14.4	L ₇	13.2	H ₇	17.1
C ₈	13.5	L ₈	16.2	H ₈	15.8
C ₉	16.5	L ₉	16.5	H ₉	14.0
C ₁₀	12.8	L ₁₀	16.8	H ₁₀	14.2
C ₁₁	14.5	L ₁₁	15.5	H ₁₁	15.5
C ₁₂	15.2	L ₁₂	14.2	H ₁₂	14.2
C ₁₃	14.5	L ₁₃	13.8	H ₁₃	13.5
C ₁₄	13.5	L ₁₄	14.5	H ₁₄	15.8
C ₁₅	14.2	L ₁₅	13.7	H ₁₅	14.5

Table - I : Showing the Haemoglobins (Gm%) of individual animal of three groups, post 14 days of feeding.

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Hb (gm%)	Animal No.	Hb (gm%)	Animal No.	Hb (gm%)
C ₁	11.5	L ₁	11.2	H ₁	12.8
C ₂	14.4	L ₂	11.0	H ₂	16.0
C ₃	14.4	L ₃	10.1	H ₃	14.5
C ₄	15.3	L ₄	12.0	H ₄	15.2
C ₅	16.0	L ₅	13.0	H ₅	14.5
C ₆	15.0	L ₆	12.5	H ₆	16.7
C ₇	14.5	L ₇	12.2	H ₇	17.5
C ₈	13.2	L ₈	14.2	H ₈	15.5
C ₉	15.9	L ₉	14.8	H ₉	13.8
C ₁₀	12.4	L ₁₀	15.2	H ₁₀	14.2
C ₁₁	14.2	L ₁₁	14.5	H ₁₁	15.4
C ₁₂	15.4	L ₁₂	13.4	H ₁₂	14.5
C ₁₃	14.8	L ₁₃	11.5	H ₁₃	13.2
C ₁₄	13.8	L ₁₄	12.8	H ₁₄	15.4
C ₁₅	14.2	L ₁₅	11.2	H ₁₅	14.8

Table - J : Showing the Haemoglobin (Gm%) of individual animals of three different groups, post 25 days of feeding

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Hb (gm%)	Animal No.	Hb (gm%)	Animal No.	Hb (gm%)
C ₁	11.4	L ₁	10.4	H ₁	12.3
C ₂	14.5	L ₂	10.2	H ₂	16.5
C ₃	14.8	L ₃	9.5	H ₃	14.5
C ₄	15.1	L ₄	11.5	H ₄	15.2
C ₅	16.2	L ₅	12.5	H ₅	14.9
C ₆	15.5	L ₆	11.2	H ₆	16.8
C ₇	14.8	L ₇	10.8	H ₇	17.8
C ₈	13.8	L ₈	11.5	H ₈	15.8
C ₉	16.8	L ₉	14.5	H ₉	13.5
C ₁₀	12.6	L ₁₀	14.2	H ₁₀	14.5
C ₁₁	14.7	L ₁₁	13.1	H ₁₁	15.7
C ₁₂	15.2	L ₁₂	12.5	H ₁₂	14.2
C ₁₃	14.8	L ₁₃	10.8	H ₁₃	13.8
C ₁₄	13.9	L ₁₄	11.2	H ₁₄	15.7
C ₁₅	14.5	L ₁₅	10.4	H ₁₅	14.8
Total	218.6		174.3		226
Mean	14.57		11.62		15.06

Table-K : Showing the Protein (Gm%) of individual animal
of three groups, prior to feeding (Day '0')

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Protein (gm%)	Animal No.	Protein (gm%)	Animal No.	Protein (gm%)
C ₁	6.4	L ₁	7.5	H ₁	7.0
C ₂	6.5	L ₂	6.5	H ₂	6.2
C ₃	7.2	L ₃	6.8	H ₃	8.2
C ₄	7.8	L ₄	7.2	H ₄	6.0
C ₅	8.0	L ₅	6.7	H ₅	6.1
C ₆	6.7	L ₆	7.5	H ₆	6.5
C ₇	8.3	L ₇	6.7	H ₇	8.5
C ₈	7.5	L ₈	6.8	H ₈	6.1
C ₉	7.4	L ₉	7.8	H ₉	6.4
C ₁₀	6.5	L ₁₀	8.2	H ₁₀	6.2
C ₁₁	6.2	L ₁₁	7.5	H ₁₁	7.2
C ₁₂	7.0	L ₁₂	6.8	H ₁₂	7.9
C ₁₃	7.5	L ₁₃	6.5	H ₁₃	7.2
C ₁₄	6.2	L ₁₄	7.5	H ₁₄	7.5
C ₁₅	6.2	L ₁₅	7.3	H ₁₅	7.5

Table - L : Showing the Protein (Gm%) of individual animal
of three groups, post 14 days of feeding.

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Protein gm%	Animal No.	Protein gm%	Animal No.	Protein gm%
C ₁	6.4	L ₁	7.0	H ₁	7.1
C ₂	6.6	L ₂	6.1	H ₂	6.1
C ₃	7.0	L ₃	6.2	H ₃	7.8
C ₄	7.6	L ₄	6.5	H ₄	6.2
C ₅	8.2	L ₅	6.1	H ₅	6.1
C ₆	6.7	L ₆	6.7	H ₆	6.4
C ₇	8.5	L ₇	6.2	H ₇	8.3
C ₈	7.5	L ₈	6.0	H ₈	6.1
C ₉	7.5	L ₉	7.5	H ₉	6.6
C ₁₀	6.7	L ₁₀	7.7	H ₁₀	6.4
C ₁₁	6.9	L ₁₁	6.2	H ₁₁	7.4
C ₁₂	7.3	L ₁₂	5.8	H ₁₂	7.5
C ₁₃	7.1	L ₁₃	6.7	H ₁₃	7.1
C ₁₄	6.2	L ₁₄	6.5	H ₁₄	7.5
C ₁₅	6.2	L ₁₅	6.3	H ₁₅	7.4

Table-M : Showing the Protein gm% of individual animal of three different groups, post 20 days of feeding

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Protein gm%	Animal No.	Protein gm%	Animal No.	Protein gm%
C ₁	6.3	L ₁	6.0	H ₁	7.2
C ₂	6.5	L ₂	5.9	H ₂	6.5
C ₃	7.1	L ₃	5.2	H ₃	8.2
C ₄	7.5	L ₄	6.2	H ₄	6.5
C ₅	8.4	L ₅	5.1	H ₅	5.9
C ₆	6.4	L ₆	6.1	H ₆	6.4
C ₇	8.5	L ₇	5.9	H ₇	8.7
C ₈	7.8	L ₈	5.5	H ₈	5.8
C ₉	7.9	L ₉	7.5	H ₉	6.2
C ₁₀	6.9	L ₁₀	7.1	H ₁₀	6.9
C ₁₁	6.4	L ₁₁	5.4	H ₁₁	7.4
C ₁₂	7.2	L ₁₂	5.2	H ₁₂	8.2
C ₁₃	7.3	L ₁₃	4.8	H ₁₃	7.5
C ₁₄	6.0	L ₁₄	5.5	H ₁₄	7.8
C ₁₅	6.1	L ₁₅	5.7	H ₁₅	7.8
Total	106.3		87.1		107.0
Mean	7.08		5.80		7.13

Table - N : Showing the individual values of Gamma amylase activity in different groups, post 25 days of feeding.

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Gamma amylase	Animal No.	Gamma amylase	Animal No.	Gamma amylase
C ₁	41	L ₁	23	H ₁	43
C ₂	43	L ₂	24	H ₂	37
C ₃	45	L ₃	38	H ₃	42
C ₄	49	L ₄	37	H ₄	41
C ₅	38	L ₅	28	H ₅	51
C ₆	47	L ₆	20	H ₆	50
C ₇	42	L ₇	28	H ₇	42
C ₈	44	L ₈	19	H ₈	55
C ₉	46	L ₉	20	H ₉	46
C ₁₀	42	L ₁₀	28	H ₁₀	39
C ₁₁	40	L ₁₁	24	H ₁₁	62
C ₁₂	50	L ₁₂	18	H ₁₂	47
C ₁₃	49	L ₁₃	16	H ₁₃	32
C ₁₄	46	L ₁₄	16	H ₁₄	44
C ₁₅	44	L ₁₅	23	H ₁₅	48
Total	666		362		679
Mean	44.4		24.13		45.26

Table - 0 : Showing the individual values of Catalase
in different groups, post 25 days of feeding

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	Catalase activity	Animal No.	Catalase activity	Animal No.	Catalase activity
C ₁	2.53	L ₁	2.79	H ₁	1.72
C ₂	2.76	L ₂	2.53	H ₂	1.84
C ₃	2.20	L ₃	1.15	H ₃	1.70
C ₄	1.16	L ₄	2.3	H ₄	1.84
C ₅	1.50	L ₅	1.72	H ₅	1.84
C ₆	1.38	L ₆	1.92	H ₆	1.70
C ₇	1.50	L ₇	1.68	H ₇	1.50
C ₈	1.68	L ₈	1.53	H ₈	1.91
C ₉	2.30	L ₉	1.70	H ₉	1.50
C ₁₀	1.50	L ₁₀	1.92	H ₁₀	1.38
C ₁₁	1.91	L ₁₁	1.68	H ₁₁	1.50
C ₁₂	1.70	L ₁₂	1.98	H ₁₂	1.68
C ₁₃	1.50	L ₁₃	1.82	H ₁₃	1.80
C ₁₄	1.10	L ₁₄	1.8	H ₁₄	1.70
C ₁₅	1.20	L ₁₅	2.2	H ₁₅	1.90
Total	25.95		28.72		25.48
Mean	1.73		1.91		1.69

Table - P : Showing the individual values of GOT (IU/mgm of L.F.P.) in different groups, post 25 days of feeding.

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	GOT (IU/mgm L.F.P.)	Animal No.	GOT (IU/mgm L.F.P.)	Animal No.	GOT (IU/mgm L.F.P.)
C ₁	225	L ₁	117	H ₁	247
C ₂	266	L ₂	168	H ₂	248
C ₃	240	L ₃	136	H ₃	226
C ₄	261	L ₄	120	H ₄	221
C ₅	182	L ₅	110	H ₅	258
C ₆	232	L ₆	125	H ₆	219
C ₇	183	L ₇	102	H ₇	196
C ₈	229	L ₈	120	H ₈	254
C ₉	241	L ₉	148	H ₉	209
C ₁₀	227	L ₁₀	133	H ₁₀	230
C ₁₁	225	L ₁₁	125	H ₁₁	229
C ₁₂	223	L ₁₂	135	H ₁₂	224
C ₁₃	225	L ₁₃	152	H ₁₃	215
C ₁₄	230	L ₁₄	75	H ₁₄	211
C ₁₅	211	L ₁₅	133	H ₁₅	209
Total	3400		1899		3396
Mean	226.6		126.6		226.4

Table - Q : Showing the individual values of GPT (IU/mgm of L.T.P.) in different groups, post 25 days of feeding.

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	GPT (IU/mgm of L.T.P.)	Animal No.	GPT (IU/mgm of L.T.P.)	Animal No.	GPT (IU/mgm of L.T.P.)
C ₁	78	L ₁	59	H ₁	75
C ₂	96	L ₂	48	H ₂	109
C ₃	90	L ₃	82	H ₃	92
C ₄	59	L ₄	60	H ₄	55
C ₅	67	L ₅	40	H ₅	105
C ₆	81	L ₆	50	H ₆	86
C ₇	50	L ₇	22	H ₇	48
C ₈	47	L ₈	20	H ₈	78
C ₉	99	L ₉	100	H ₉	62
C ₁₀	79	L ₁₀	44	H ₁₀	80
C ₁₁	63	L ₁₁	50	H ₁₁	94
C ₁₂	64	L ₁₂	48	H ₁₂	56
C ₁₃	100	L ₁₃	38	H ₁₃	69
C ₁₄	85	L ₁₄	55	H ₁₄	75
C ₁₅	78	L ₁₅	48	H ₁₅	82
Total	1136		764		1166
Mean	75.73		50.93		77.73

Table - R : Showing the individual values of T_3 ngm/ml
in different groups, post 25 days of feeding

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	T_3 (ngm/ml)	Animal No.	T_3 (ngm/ml)	Animal No.	T_3 (ngm/ml)
C ₁	1.2	L ₁	0.52	H ₁	.89
C ₂	1.5	L ₂	0.72	H ₂	.92
C ₃	1.6	L ₃	0.54	H ₃	1.5
C ₄	0.9	L ₄	0.52	H ₄	2.6
C ₅	1.5	L ₅	0.46	H ₅	1.0
C ₆	0.98	L ₆	0.28	H ₆	2.2
C ₇	1.3	L ₇	0.88	H ₇	2.5
C ₈	0.99	L ₈	0.89	H ₈	1.6
C ₉	1.6	L ₉	0.29	H ₉	1.5
C ₁₀	0.97	L ₁₀	1.1	H ₁₀	.79
C ₁₁	2.2	L ₁₁	.33	H ₁₁	.82
C ₁₂	2.1	L ₁₂	1.2	H ₁₂	.77
C ₁₃	.82	L ₁₃	.52	H ₁₃	1.5
C ₁₄	.72	L ₁₄	.72	H ₁₄	2.1
C ₁₅	1.2	L ₁₅	.61	H ₁₅	1.8
Total	19.58		9.58		22.49
Mean	1.30		0.63		1.49

Table - 8 : Showing the individual values of T_4 $\mu\text{gm}/100$ ml
in different groups, post 25 days of feeding

Group I (Control)		Group II (10% Protein)		Group III (20% Protein)	
Animal No.	T_4 ($\mu\text{gm}/100\text{ml}$)	Animal No.	T_4 ($\mu\text{gm}/$ 100 ml)	Animal No.	T_4 ($\mu\text{gm}/100$ ml)
C ₁	7.8	L ₁	8.2	H ₁	7.5
C ₂	7.2	L ₂	9.8	H ₂	8.5
C ₃	8.5	L ₃	6.8	H ₃	9.5
C ₄	9.5	L ₄	7.5	H ₄	10.2
C ₅	5.5	L ₅	10.2	H ₅	8.7
C ₆	5.8	L ₆	11.1	H ₆	8.6
C ₇	5.5	L ₇	10.1	H ₇	5.5
C ₈	5.7	L ₈	10.9	H ₈	7.5
C ₉	5.0	L ₉	9.2	H ₉	6.5
C ₁₀	5.8	L ₁₀	11.5	H ₁₀	6.6
C ₁₁	9.8	L ₁₁	6.5	H ₁₁	7.1
C ₁₂	7.2	L ₁₂	7.5	H ₁₂	6.7
C ₁₃	7.7	L ₁₃	5.8	H ₁₃	7.1
C ₁₄	6.7	L ₁₄	6.8	H ₁₄	7.2
C ₁₅	7.8	L ₁₅	7.8	H ₁₅	7.3
Total	107.5		129.7		114.5
Mean	7.16		8.64		7.63