



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

Confidential

JOB ORDER NO. : TOX-355 B
PRODUCT : NHH 44 Bt-COTTON SEEDS
STUDY : SUBCHRONIC ORAL TOXICITY IN RATS
REPORT NO. : 000046990 DATE : 18.5.2007

TABLE - 2.01
AVERAGE FEED CONSUMPTION DATA OF MALE AND FEMALE RATS

Dose Levels	MALE (Average feed consumption in gm)	FEMALE (Average feed consumption in gm)
CONTROL	138.4 ± 11.3	137.3 ± 8.38
NHH 44 Bt-COTTON SEEDS	149.9 ± 8.83	149.8 ± 8.57
NHH 44 NON Bt-COTTON SEEDS	148.2 ± 10.6	140.2 ± 9.07

* P ≤ 0.05



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TABLE - 2.02
FEED CONSUMPTION DATA OF MALE RATS 90 DAYS ORAL STUDY

DAYS	FEED WT. (In gms.)	CONTROL	NHH 44 Bt-COTTON SEEDS	NHH 44 NON Bt-COTTON SEEDS
0	175.0	153.2	156.2	158.8
1	175.0	152.9	162.8	154.4
2	175.0	155.6	159.0	153.8
3	175.0	148.6	152.8	157.1
4	175.0	147.9	159.0	153.4
5	175.0	151.9	144.6	156.7
6	175.0	146.8	152.8	154.8
7	175.0	159.6	160.2	156.6
8	175.0	148.0	150.6	153.9
9	175.0	141.9	152.8	154.4
10	175.0	155.3	155.2	153.3
11	175.0	157.2	153.8	152.2
12	175.0	136.0	148.6	150.8
13	175.0	142.7	152.8	159.4
14	175.0	130.9	153.0	152.2
15	175.0	138.2	154.6	153.3
16	175.0	125.1	155.8	149.9
17	175.0	148.6	152.9	151.8
18	175.0	155.7	156.5	159.9
19	175.0	133.6	147.7	153.4
20	175.0	154.2	148.3	156.6



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TABLE - 2.03
FEED CONSUMPTION DATA OF MALE RATS 90 DAYS ORAL STUDY

DAYS	FEED WT. (In gms.)	CONTROL	NHH 44 Bt-COTTON SEEDS	NHH 44 NON Bt-COTTON SEEDS
21	175.0	141.9	149.9	149.9
22	175.0	123.6	153.0	153.2
23	175.0	128.2	157.6	154.0
24	175.0	133.4	153.1	155.2
25	175.0	121.7	160.0	156.0
26	175.0	129.6	152.2	155.2
27	175.0	132.0	151.4	154.3
28	175.0	154.6	149.9	156.5
29	175.0	150.4	153.1	152.3
30	175.0	149.9	157.7	154.4
31	175.0	125.0	151.3	156.2
32	175.0	137.0	153.0	155.2
33	175.0	113.0	154.2	159.9
34	175.0	124.8	149.0	157.8
35	175.0	148.2	152.1	152.8
36	175.0	134.1	157.0	152.9
37	175.0	131.2	147.7	156.2
38	175.0	145.6	151.0	152.8
39	175.0	128.9	147.7	156.4
40	175.0	131.0	156.3	157.7
41	175.0	125.0	148.3	154.4



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TABLE - 2.04
FEED CONSUMPTION DATA OF MALE RATS 90 DAYS ORAL STUDY

DAYS	FEED WT. (In gms.)	CONTROL	NHH 44 Bt-COTTON SEEDS	NHH 44 NON Bt-COTTON SEEDS
42	175.0	141.6	157.6	154.9
43	175.0	138.9	149.9	156.0
44	175.0	124.3	153.6	128.7
45	175.0	132.7	149.2	120.4
46	175.0	129.4	129.3	132.7
47	175.0	149.9	121.5	130.8
48	175.0	153.1	121.7	132.7
49	175.0	148.2	125.3	132.0
50	175.0	151.2	151.1	127.8
51	175.0	124.6	149.2	152.2
52	175.0	157.3	154.5	151.4
53	175.0	121.5	152.9	153.2
54	175.0	122.9	149.5	150.4
55	175.0	149.6	152.1	155.3
56	175.0	141.6	150.6	153.4
57	175.0	143.6	151.1	155.3
58	175.0	131.6	156.7	151.1
59	175.0	146.3	154.6	150.6
60	175.0	122.9	146.2	149.3
61	175.0	125.6	151.8	148.9
62	175.0	141.6	157.4	155.7



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TABLE - 2.05
FEED CONSUMPTION DATA OF MALE RATS 90 DAYS ORAL STUDY

DAYS	FEED WT. (In gms.)	CONTROL	NHH 44 Bt-COTTON SEEDS	NHH 44 NON Bt-COTTON SEEDS
63	175.0	132.6	152.4	122.6
64	175.0	141.1	149.9	133.9
65	175.0	122.6	151.6	126.9
66	175.0	133.9	153.2	125.6
67	175.0	141.5	149.9	121.5
68	175.0	126.9	152.2	122.9
69	175.0	125.6	129.1	149.6
70	175.0	141.2	121.5	141.6
71	175.0	144.9	121.6	151.6
72	175.0	126.3	125.3	154.6
73	175.0	141.5	152.6	124.6
74	175.0	132.5	150.3	137.3
75	175.0	125.3	148.1	133.5
76	175.0	133.9	144.9	131.2
77	175.0	126.3	151.6	125.6
78	175.0	125.0	146.5	153.6
79	175.0	125.6	151.8	154.4
80	175.0	139.0	147.4	149.9
81	175.0	149.3	151.3	153.1
82	175.0	148.9	149.9	148.2
83	175.0	155.7	153.3	151.7



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TABLE - 2.06
FEED CONSUMPTION DATA OF MALE RATS 90 DAYS ORAL STUDY

DAYS	FEED WT. (In gms.)	CONTROL	NHH 44 Bt-COTTON SEEDS	NHH 44 NON Bt-COTTON SEEDS
84	175.0	150.3	153.8	148.2
85	175.0	151.6	152.2	151.6
86	175.0	145.2	157.0	149.3
87	175.0	121.3	160.2	153.2
88	175.0	131.0	143.8	147.0
89	175.0	135.6	149.1	144.2
90	175.0	132.4	153.6	146.0
Mean	175.0	138.4	149.9	148.3
±	±	±	±	±
S.D.	0.00	11.3	8.83	10.6



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TABLE - 2.07
FEED CONSUMPTION DATA OF FEMALE RATS 90 DAYS ORAL STUDY

DAYS	FEED WT. (In gms.)	CONTROL	NHH 44 Bt-COTTON SEEDS	NHH 44 NON Bt-COTTON SEEDS
0	175.0	150.2	159.4	157.3
1	175.0	151.1	157.8	151.2
2	175.0	148.2	152.8	148.3
3	175.0	145.2	159.9	155.3
4	175.0	144.1	156.6	151.6
5	175.0	142.4	157.4	129.8
6	175.0	140.1	149.9	135.7
7	175.0	126.2	153.0	134.9
8	175.0	133.4	152.4	132.7
9	175.0	128.5	155.1	133.6
10	175.0	133.4	160.2	143.6
11	175.0	136.4	153.3	158.7
12	175.0	132.4	154.2	131.8
13	175.0	130.5	150.7	135.9
14	175.0	132.1	154.2	142.6
15	175.0	133.7	150.7	132.5
16	175.0	128.5	154.2	130.4
17	175.0	127.3	148.8	141.0
18	175.0	130.2	150.2	134.2
19	175.0	128.7	153.25	133.7
20	175.0	123.7	151.8	121.6



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TABLE - 2.08
FEED CONSUMPTION DATA OF FEMALE RATS 90 DAYS ORAL STUDY

DAYS	FEED WT. (In gms.)	CONTROL	NHH 44 Bt-COTTON SEEDS	NHH 44 NON Bt-COTTON SEEDS
21	175.0	139.5	159.2	136.5
22	175.0	141.2	132.6	132.4
23	175.0	146.7	156.2	153.8
24	175.0	143.7	154.4	135.6
25	175.0	142.7	152.2	141.2
26	175.0	139.8	156.2	140.2
27	175.0	136.7	153.3	132.4
28	175.0	138.7	154.5	157.3
29	175.0	139.4	156.7	130.2
30	175.0	129.7	155.3	149.6
31	175.0	135.2	156.0	151.6
32	175.0	132.4	153.3	156.0
33	175.0	136.1	158.0	145.6
34	175.0	135.2	154.6	135.1
35	175.0	131.8	156.2	149.9
36	175.0	143.2	156.8	153.3
37	175.0	155.2	152.9	153.8
38	175.0	154.8	141.3	152.2
39	175.0	151.3	153.4	140.3
40	175.0	152.6	156.0	135.0
41	175.0	152.1	151.6	141.2



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TABLE - 2.09
FEED CONSUMPTION DATA OF FEMALE RATS 90 DAYS ORAL STUDY

DAYS	FEED WT. (In gms.)	CONTROL	NHH 44 Bt-COTTON SEEDS	NHH 44 NON Bt-COTTON SEEDS
42	175.0	132.2	154.3	132.5
43	175.0	136.5	145.6	124.0
44	175.0	154.2	135.0	126.2
45	175.0	156.2	125.2	127.6
46	175.0	156.8	124.1	148.3
47	175.0	152.2	123.8	154.3
48	175.0	141.3	151.9	127.8
49	175.0	138.7	152.6	129.1
50	175.0	130.7	153.2	139.5
51	175.0	128.7	156.4	135.0
52	175.0	120.4	153.7	145.1
53	175.0	132.7	151.4	142.3
54	175.0	130.8	154.6	140.4
55	175.0	132.7	153.8	139.4
56	175.0	132.0	156.2	135.5
57	175.0	127.8	156.0	135.8
58	175.0	129.7	153.2	131.9
59	175.0	123.2	154.7	125.6
60	175.0	132.2	132.1	131.4
61	175.0	130.4	130.7	141.6
62	175.0	135.7	138.2	140.2



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TABLE - 2.10
FEED CONSUMPTION DATA OF FEMALE RATS 90 DAYS ORAL STUDY

DAYS	FEED WT. (In gms.)	CONTROL	NHH 44 Bt-COTTON SEEDS	NHH 44 NON Bt-COTTON SEEDS
63	175.0	139.4	136.1	132.5
64	175.0	130.4	145.0	138.7
65	175.0	132.4	150.3	136.4
66	175.0	142.1	151.2	135.5
67	175.0	138.7	149.8	159.6
68	175.0	125.8	137.3	158.3
69	175.0	148.0	133.5	153.6
70	175.0	136.4	131.2	156.2
71	175.0	135.7	125.6	142.1
72	175.0	138.0	143.2	142.6
73	175.0	135.7	155.2	137.6
74	175.0	143.2	154.8	135.8
75	175.0	136.7	151.3	134.8
76	175.0	144.0	152.6	144.3
77	175.0	146.7	152.1	140.2
78	175.0	139.8	150.0	132.2
79	175.0	142.3	151.6	136.9
80	175.0	135.8	148.6	134.2
81	175.0	136.7	152.0	132.1
82	175.0	139.7	148.2	138.2
83	175.0	129.8	151.6	136.0



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TABLE - 2.11
FEED CONSUMPTION DATA OF FEMALE RATS 90 DAYS ORAL STUDY

DAYS	FEED WT. (In gms.)	CONTROL	NHH 44 Bt-COTTON SEEDS	NHH 44 NON Bt-COTTON SEEDS
84	175.0	130.6	155.8	131.5
85	175.0	138.0	147.6	136.8
86	175.0	130.5	153.2	139.5
87	175.0	135.8	154.6	140.6
88	175.0	130.2	150.4	141.2
89	175.0	123.7	149.9	148.1
90	175.0	128.9	148.9	147.4
Mean	175.0	137.3	149.8	140.2
±	±	±	±	±
S.D.	0.00	8.38	8.57	9.07