



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.01  
MEAN PERCENTILE BODY WEIGHT DATA OF MALE RATS 90 DAYS ORAL STUDY

Week	0	1	2	3	4	5	6	7	8	9	10	11	12	13 Terminal Sacrifice
<b>Control ( Corn Oil Only)</b>	100.0 ± 0.0	110.37 ± 3.19	119.56 ± 3.15	128.68 ± 3.18	137.27 ± 3.33	143.68 ± 3.79	149.48 ± 3.77	153.77 ± 3.50	157.55 ± 3.68	161.98 ± 3.79	164.99 ± 3.76	168.16 ± 3.66	170.64 ± 3.54	172.98 ± 3.66
<b>NHH 44 Bt-Cotton Seeds</b>	100.0 ± 0.0	114.77 ± 3.58	124.15 ± 4.18	132.62 ± 4.61	141.01 ± 4.81	147.95 ± 5.03	154.13 ± 5.31	158.31 ± 5.28	162.21 ± 5.70	166.07 ± 4.53	169.49 ± 4.36	172.48 ± 4.84	175.22 ± 5.07	177.73 ± 4.99
<b>NHH 44 Non Bt- Cotton Seeds</b>	100.0 ± 0.0	113.62 ± 2.45	123.06 ± 2.90	131.98 ± 3.36	140.52 ± 3.58	147.09 ± 3.58	152.75 ± 3.79	156.69 ± 4.16	160.32 ± 4.35	163.79 ± 4.16	166.80 ± 4.06	169.67 ± 4.40	172.17 ± 4.40	173.87 ± 2.70

\* P ≤ 0.05



**SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH**

**PROJECT NO. : TOX-355B**  
**PRODUCT : NHH 44 Bt-COTTON SEEDS**  
**STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS**  
**REPORT NO. : 000046990**  
**DATE : 18.5.2007**

**Confidential**

**TABLE - 1.02**  
**MEAN PERCENTILE BODY WEIGHT DATA OF FEMALE RATS 90 DAYS ORAL STUDY**

<b>Week</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13 Terminal Sacrifice</b>
<b>Control ( Corn Oil Only)</b>	100.0 ± 0.0	112.07 ± 2.07	121.27 ± 2.17	130.54 ± 2.09	139.67 ± 1.14	146.30 ± 1.54	152.30 ± 1.86	155.66 ± 3.70	159.32 ± 3.70	162.51 ± 3.67	165.25 ± 3.62	168.37 ± 3.83	170.72 ± 3.86	173.38 ± 3.99
<b>NHH 44 Bt-Cotton Seeds</b>	100.0 ± 0.0	115.20 ± 1.74	124.57 ± 2.09	133.48 ± 2.41	142.23 ± 2.68	148.91 ± 2.88	154.67 ± 3.13	158.74 ± 3.03	162.27 ± 3.22	165.89 ± 3.53	169.56 ± 3.62	172.56 ± 3.59	175.09 ± 3.72	177.63 ± 3.93
<b>NHH 44 Non Bt- Cotton Seeds</b>	100.0 ± 0.0	113.55 ± 1.53	122.64 ± 1.90	131.21 ± 5.23	140.04 ± 2.74	146.77 ± 2.87	152.60 ± 3.13	156.92 ± 3.39	160.56 ± 3.81	163.73 ± 3.57	166.84 ± 3.92	170.16 ± 3.85	172.74 ± 3.98	175.38 ± 4.03

\* P ≤ 0.05



**SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH**

**Confidential**

**PROJECT NO. : TOX-355B**  
**PRODUCT : NHH 44 Bt-COTTON SEEDS**  
**STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS**  
**REPORT NO. : 000046990**  
**DATE : 18.5.2007**

**TABLE - 1.03**  
**MEAN WEEKLY BODY WEIGHT DATA OF MALE RATS 90 DAYS ORAL STUDY**

<b>Week</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13 Terminal Sacrifice</b>
<b>Control ( Corn Oil Only )</b>	132.9 ± 3.90	146.7 ± 6.43	158.9 ± 6.30	171 ± 6.06	182.4 ± 6.00	190.9 ± 6.03	198.6 ± 5.91	204.3 ± 5.56	209.3 ± 4.85	215.2 ± 5.43	219.2 ± 5.37	223.4 ± 4.86	226.7 ± 5.01	229.8 ± 5.03
<b>NHH 44 Bt- Cotton Seeds</b>	131.3 ± 4.22	150.6 ± 3.78	162.9 ± 4.04	174 ± 4.00	185 ± 3.89	194.1 ± 3.63	202.2 ± 3.71	207.7 ± 3.97	212.8 ± 4.10	217.9 ± 3.70	222.4 ± 3.63	226.3 ± 3.56	229.9 ± 3.60	233.2 ± 3.65
<b>NHH 44 Non Bt- Cotton Seeds</b>	132.5 ± 3.84	150.5 ± 3.81	163 ± 3.86	174.8 ± 3.94	186.1 ± 4.04	194.8 ± 3.94	202.3 ± 3.97	207.5 ± 3.84	212.3 ± 3.71	216.9 ± 3.67	220.9 ± 3.81	224.7 ± 4.06	228 ± 3.89	231.3 ± 3.53

\* P ≤ 0.05



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.04  
MEAN WEEKLY BODY WEIGHT DATA OF FEMALE RATS 90 DAYS ORAL STUDY

Week	0	1	2	3	4	5	6	7	8	9	10	11	12	13 Terminal Sacrifice
Control ( Corn Oil Only)	131.6 ± 2.72	147.5 ± 4.70	159.6 ± 4.74	171.8 ± 4.66	183.8 ± 3.49	192.5 ± 3.03	200.4 ± 3.03	204.8 ± 4.16	209.6 ± 3.47	213.8 ± 3.39	217.4 ± 3.20	221.5 ± 3.44	224.6 ± 3.41	228.1 ± 4.09
NHH 44 Bt Cotton Seeds	130.4 ± 4.17	150.2 ± 4.59	162.4 ± 4.33	174 ± 4.22	185.4 ± 4.45	194.1 ± 4.38	201.6 ± 4.20	206.9 ± 3.96	211.5 ± 3.98	216.2 ± 3.77	221 ± 4.32	224.9 ± 4.12	228.2 ± 4.39	231.5 ± 4.09
NHH 44 Non Bt- Cotton Seeds	132.3 ± 4.00	150.2 ± 3.94	162.2 ± 3.65	174 ± 3.71	185.2 ± 3.88	194.1 ± 3.87	201.8 ± 4.08	207.5 ± 3.47	212.3 ± 3.56	216.5 ± 3.17	220.6 ± 2.59	225 ± 2.98	228.4 ± 2.84	231.9 ± 3.03

\* P ≤ 0.05



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.05  
WEEKLY PERCENTILE DATA OF MALE RATS  
DURATION : 90 DAYS GROUP : CONTROL (Vehicle- Corn oil)

Body Weights on															
Animal No.	Sex	0 Week	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal Sacrifice
1	M	100.0	112.98	122.14	131.30	139.69	146.56	151.91	155.73	159.54	163.36	167.18	170.99	173.28	176.34
2	M	100.0	109.23	119.23	129.23	137.69	143.85	150.00	154.62	158.46	163.08	166.15	169.23	171.54	173.85
3	M	100.0	107.46	116.42	124.63	132.09	138.06	143.28	147.76	152.24	155.97	158.96	162.69	165.67	167.91
4	M	100.0	108.73	119.05	128.57	138.10	145.24	151.59	156.35	161.90	165.08	168.25	172.22	174.60	176.98
5	M	100.0	104.51	113.53	123.31	132.33	138.35	145.11	150.38	154.14	166.17	169.17	171.43	173.68	175.94
6	M	100.0	112.95	122.30	130.94	138.85	144.60	149.64	153.96	156.83	161.87	164.75	167.63	170.50	172.66
7	M	100.0	113.95	123.26	133.33	142.64	150.39	155.81	159.69	163.57	166.67	168.99	172.09	174.42	176.74
8	M	100.0	112.59	120.74	129.63	137.78	144.44	150.37	154.07	157.78	160.00	163.70	166.67	169.63	171.85
9	M	100.0	108.09	116.91	125.74	134.56	140.44	145.59	150.00	152.94	155.88	158.82	162.50	164.71	166.91
10	M	100.0	113.24	122.06	130.15	138.97	144.85	151.47	155.15	158.09	161.76	163.97	166.18	168.38	170.59
Mean ± S.D.		100.0 ± 0.0	110.37 ± 3.19	119.56 ± 3.15	128.68 ± 3.18	137.27 ± 3.33	143.68 ± 3.79	149.48 ± 3.77	153.77 ± 3.50	157.55 ± 3.68	161.98 ± 3.79	164.99 ± 3.76	168.16 ± 3.66	170.64 ± 3.54	172.98 ± 3.66



**SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH**

*Confidential*

**PROJECT NO. : TOX-355B**  
**PRODUCT : NHH 44 Bt-COTTON SEEDS**  
**STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS**  
**REPORT NO. : 000046990**  
**DATE : 18.5.2007**

**TABLE - 1.06**  
**WEEKLY PERCENTILE DATA OF FEMALE RATS**  
**DURATION : 90 DAYS                      GROUP : CONTROL (Vehicle- Corn oil)**

Body Weights on															
Animal No.	Sex	0 Week	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal Sacrifice
1	F	100.0	111.54	120.77	130.77	140	146.15	152.31	156.15	160	162.31	165.38	168.46	170.77	173.08
2	F	100.0	112.50	120.59	129.41	137.5	143.38	148.53	151.47	154.41	157.35	159.56	161.76	163.97	166.91
3	F	100.0	113.95	123.26	132.56	141.09	148.84	155.04	158.91	163.57	167.44	168.99	171.32	173.64	175.97
4	F	100.0	115.79	124.81	133.83	141.35	147.37	153.38	157.14	160.15	163.16	166.92	169.92	172.18	177.44
5	F	100.0	113.43	123.13	131.34	139.55	146.27	152.99	157.46	160.45	163.43	164.93	169.40	171.64	173.88
6	F	100.0	110.77	120.77	130.00	139.23	146.15	152.31	156.92	160.77	163.85	166.15	169.23	172.31	174.62
7	F	100.0	111.02	120.47	129.92	139.37	147.24	153.54	157.48	162.20	165.35	168.50	172.44	174.80	177.17
8	F	100.0	112.69	121.64	131.34	139.55	145.52	150.75	147.01	151.49	155.22	158.21	161.19	163.43	165.67
9	F	100.0	110.61	120.45	130.30	138.64	144.70	150.76	155.30	158.33	162.12	165.91	168.94	171.97	174.24
10	F	100.0	108.40	116.79	125.95	140.46	147.33	153.44	158.78	161.83	164.89	167.94	170.99	172.52	174.81
<b>Mean</b>		100.0	112.07	121.27	130.54	139.67	146.30	152.30	155.66	159.32	162.51	165.25	168.37	170.72	173.38
<b>± S.D.</b>		± 0.0	± 2.07	± 2.17	± 2.09	± 1.14	± 1.54	± 1.86	± 3.70	± 3.70	± 3.67	± 3.62	± 3.83	± 3.86	± 3.99



**SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH**

**PROJECT NO. : TOX-355B**  
**PRODUCT : NHH 44 Bt-COTTON SEEDS**  
**STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS**  
**REPORT NO. : 000046990**  
**DATE : 18.5.2007**

**Confidential**

**TABLE - 1.07**  
**WEEKLY PERCENTILE DATA OF MALE RATS**  
**DURATION: 90 DAYS GROUP: NHH 44 Bt-COTTON SEEDS (1000 mg/ kg. wt.)**

Body Weights on															
Animal No.	Sex	0 Week	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal Sacrifice
1	M	100.0	117.46	126.98	135.71	145.24	153.17	159.52	163.49	167.46	170.63	173.81	176.19	179.37	181.75
2	M	100.0	112.03	119.55	127.82	136.09	142.86	149.62	154.14	157.89	161.65	165.41	168.42	170.68	173.68
3	M	100.0	118.75	128.91	138.28	146.88	154.69	160.94	164.84	169.53	172.66	176.56	180.47	183.59	185.94
4	M	100.0	116.92	126.15	134.62	142.31	148.46	154.62	158.46	161.54	165.38	168.46	171.54	174.62	176.92
5	M	100.0	116.79	127.48	135.88	143.51	150.38	157.25	161.83	165.65	168.70	170.99	174.81	177.10	179.39
6	M	100.0	108.96	117.91	125.37	133.58	141.04	147.01	150.75	154.48	161.94	165.67	167.91	170.15	173.13
7	M	100.0	109.35	117.99	125.90	133.81	140.29	145.32	149.64	152.52	158.27	162.59	164.75	167.63	169.78
8	M	100.0	113.53	123.31	132.33	141.35	148.12	153.38	157.89	162.41	164.66	167.67	170.68	172.93	175.19
9	M	100.0	117.91	126.87	134.33	142.54	148.51	155.22	159.70	163.43	167.16	170.15	172.39	175.37	178.36
10	M	100.0	116.00	126.40	136.00	144.80	152.00	158.40	162.40	167.20	169.60	173.60	177.60	180.80	183.20
<b>Mean ± S.D.</b>		100.0 ± 0.0	114.77 ± 3.58	124.15 ± 4.18	132.62 ± 4.61	141.01 ± 4.81	147.95 ± 5.03	154.13 ± 5.31	158.31 ± 5.28	162.21 ± 5.70	166.07 ± 4.53	169.49 ± 4.36	172.48 ± 4.84	175.22 ± 5.07	177.73 ± 4.99



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.08  
WEEKLY PERCENTILE DATA OF FEMALE RATS  
DURATION: 90 DAYS GROUP: NHH 44 Bt-COTTON SEEDS (1000 mg/ kg.b.wt.)

Body Weights on															
Animal No.	Sex	0 Week	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal Sacrifice
1	F	100.0	113.93	124.59	134.43	143.44	150.82	157.38	162.30	165.57	169.67	172.95	176.23	178.69	181.97
2	F	100.0	113.24	122.06	130.15	138.97	144.85	150.00	153.68	156.62	160.29	163.97	167.65	169.85	172.06
3	F	100.0	114.93	123.13	132.09	140.30	147.76	152.99	157.46	161.19	164.93	168.66	170.90	173.88	176.12
4	F	100.0	116.03	125.95	134.35	143.51	150.38	156.49	160.31	163.36	165.65	169.47	171.76	174.05	176.34
5	F	100.0	117.97	127.34	136.72	145.31	151.56	158.59	161.72	166.41	170.31	174.22	176.56	178.91	181.25
6	F	100.0	113.85	123.85	133.85	141.54	148.46	153.85	158.46	162.31	166.15	171.54	174.62	177.69	180.00
7	F	100.0	116.67	126.19	134.92	144.44	151.59	157.14	161.11	165.08	169.84	172.22	176.19	178.57	181.75
8	F	100.0	116.79	126.72	135.88	145.04	151.15	155.73	159.54	162.60	166.41	170.99	174.05	177.10	179.39
9	F	100.0	112.69	120.90	129.10	137.31	143.28	149.25	153.73	157.46	160.45	163.43	166.42	168.66	170.90
10	F	100.0	115.91	125.00	133.33	142.42	149.24	155.30	159.09	162.12	165.15	168.18	171.21	173.48	176.52
Mean ± S.D.		100.0 ± 0.0	115.20 ± 1.74	124.57 ± 2.09	133.48 ± 2.41	142.23 ± 2.68	148.91 ± 2.88	154.67 ± 3.13	158.74 ± 3.03	162.27 ± 3.22	165.89 ± 3.53	169.56 ± 3.62	172.56 ± 3.59	175.09 ± 3.72	177.63 ± 3.93



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.09  
WEEKLY PERCENTILE DATA OF MALE RATS  
DURATION: 90 DAYS GROUP: NHH 44 NON Bt-COTTON SEEDS (1000 mg/ kg.b.wt.)

Body Weights on															
Animal No.	Sex	0 Week	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal Sacrifice
1	M	100.0	109.02	118.05	127.07	135.34	142.11	147.37	151.13	154.89	158.65	162.41	165.41	167.67	170.68
2	M	100.0	117.46	128.57	138.89	148.41	154.76	160.32	165.08	169.84	173.02	176.19	180.16	182.54	176.98
3	M	100.0	112.31	122.31	131.54	140.00	146.15	152.31	156.15	160.00	163.08	166.15	169.23	172.31	175.38
4	M	100.0	115.79	124.81	133.08	141.35	148.87	154.89	157.89	160.90	164.66	167.67	171.43	173.68	175.94
5	M	100.0	113.74	122.90	131.30	140.46	147.33	152.67	157.25	160.31	164.12	166.41	168.70	170.99	174.05
6	M	100.0	114.73	124.03	133.33	141.09	148.06	154.26	158.91	162.79	165.89	168.22	170.54	173.64	175.97
7	M	100.0	114.81	124.44	134.07	142.22	148.15	154.07	158.52	161.48	163.70	167.41	170.37	172.59	174.81
8	M	100.0	110.79	119.42	127.34	135.97	142.45	147.48	151.08	155.40	158.27	161.87	164.75	166.91	169.06
9	M	100.0	113.14	122.63	131.39	139.42	145.26	150.36	153.28	156.20	161.31	163.50	165.69	168.61	170.80
10	M	100.0	114.39	123.48	131.82	140.91	147.73	153.79	157.58	161.36	165.15	168.18	170.45	172.73	175.00
Mean ± S.D.		100.0 ± 0.0	113.62 ± 2.45	123.06 ± 2.90	131.98 ± 3.36	140.52 ± 3.58	147.09 ± 3.58	152.75 ± 3.79	156.69 ± 4.16	160.32 ± 4.35	163.79 ± 4.16	166.80 ± 4.06	169.67 ± 4.40	172.17 ± 4.40	173.87 ± 2.70



**SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH**

*Confidential*

PROJECT NO. : TOX-355B  
 PRODUCT : NHH 44 Bt-COTTON SEEDS  
 STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
 REPORT NO. : 000046990  
 DATE : 18.5.2007

**TABLE - 1.10**  
**WEEKLY PERCENTILE DATA OF FEMALE RATS**  
**DURATION: 90 DAYS; GROUP: NHH 44 NON Bt-COTTON SEEDS (1000 mg/ kg.b.wt.)**

Body Weights on															
Animal No.	Sex	0 Week	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal Sacrifice
1	F	100.0	112.50	121.88	127.27	139.84	146.88	153.13	158.59	162.5	166.41	170.31	173.44	176.56	178.91
2	F	100.0	112.88	122.73	134.62	141.67	148.48	153.79	157.58	160.61	163.64	166.67	168.94	171.97	174.24
3	F	100.0	115.38	125.38	131.58	144.62	150.77	156.92	160.77	164.62	166.92	170.00	173.85	176.92	180.00
4	F	100.0	112.03	121.05	127.41	137.59	144.36	149.62	154.14	157.14	160.90	164.66	167.67	169.92	172.18
5	F	100.0	111.85	120.00	126.09	136.30	142.96	148.89	153.33	156.30	160.00	162.96	165.93	168.89	172.59
6	F	100.0	113.04	121.74	136.64	137.68	144.93	150.72	154.35	158.70	161.59	163.77	167.39	169.57	171.74
7	F	100.0	116.03	124.43	140.80	141.98	149.62	156.49	161.07	164.89	167.18	170.23	173.28	175.57	178.63
8	F	100.0	115.20	125.60	125.37	143.20	150.40	156.00	161.60	166.40	169.60	173.60	176.80	179.20	181.60
9	F	100.0	114.18	122.39	127.74	139.55	145.52	151.49	154.48	158.21	161.94	164.18	168.66	170.90	173.88
10	F	100.0	112.41	121.17	134.54	137.96	143.80	148.91	153.28	156.20	159.12	162.04	165.69	167.88	170.07
<b>Mean</b> ± <b>S.D.</b>		100.0 ± 0.0	113.55 ± 1.53	122.64 ± 1.90	131.21 ± 5.23	140.04 ± 2.74	146.77 ± 2.87	152.60 ± 3.13	156.92 ± 3.39	160.56 ± 3.81	163.73 ± 3.57	166.84 ± 3.92	170.16 ± 3.85	172.74 ± 3.98	175.38 ± 4.03



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.11  
WEEKLY BODY WEIGHT DATA (in gms) OF MALE RATS  
DURATION : 90 DAYS GROUP : CONTROL (Vehicle- Corn Oil)

Body Weights on															
Animal No.	Sex	0 Week	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal Sacrifice
1	M	131	148	160	172	183	192	199	204	209	214	219	224	227	231
2	M	130	142	155	168	179	187	195	201	206	212	216	220	223	226
3	M	134	144	156	167	177	185	192	198	204	209	213	218	222	225
4	M	126	137	150	162	174	183	191	197	204	208	212	217	220	223
5	M	133	139	151	164	176	184	193	200	205	221	225	228	231	234
6	M	139	157	170	182	193	201	208	214	218	225	229	233	237	240
7	M	129	147	159	172	184	194	201	206	211	215	218	222	225	228
8	M	135	152	163	175	186	195	203	208	213	216	221	225	229	232
9	M	136	147	159	171	183	191	198	204	208	212	216	221	224	227
10	M	136	154	166	177	189	197	206	211	215	220	223	226	229	232
Mean		132.9	146.7	158.9	171	182.4	190.9	198.6	204.3	209.3	215.2	219.2	223.4	226.7	229.8
±		±	±	±	±	±	±	±	±	±	±	±	±	±	±
S.D		3.90	6.43	6.30	6.06	6.00	6.03	5.91	5.56	4.85	5.43	5.37	4.86	5.01	5.03



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.12  
WEEKLY BODY WEIGHT DATA (in gms) OF FEMALE RATS  
DURATION : 90 DAYS GROUP : CONTROL (Vehicle- Corn Oil)

Body Weights on															
Animal No.	Sex	0 Week	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal Sacrifice
1	F	130	145	157	170	182	190	198	203	208	211	215	219	222	225
2	F	136	153	164	176	187	195	202	206	210	214	217	220	223	227
3	F	129	147	159	171	182	192	200	205	211	216	218	221	224	227
4	F	133	154	166	178	188	196	204	209	213	217	222	226	229	236
5	F	134	152	165	176	187	196	205	211	215	219	221	227	230	233
6	F	130	144	157	169	181	190	198	204	209	213	216	220	224	227
7	F	127	141	153	165	177	187	195	200	206	210	214	219	222	225
8	F	134	151	163	176	187	195	202	197	203	208	212	216	219	222
9	F	132	146	159	172	183	191	199	205	209	214	219	223	227	230
10	F	131	142	153	165	184	193	201	208	212	216	220	224	226	229
Mean		131.6	147.5	159.6	171.8	183.8	192.5	200.4	204.8	209.6	213.8	217.4	221.5	224.6	228.1
±		±	±	±	±	±	±	±	±	±	±	±	±	±	±
S.D.		2.72	4.70	4.74	4.66	3.49	3.03	3.03	4.16	3.47	3.39	3.20	3.44	3.41	4.09



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.13  
WEEKLY BODY WEIGHT DATA (in gms) OF MALE RATS  
DURATION : 90 DAYS GROUP : NHH 44 Bt-COTTON SEEDS (1000 mg/ kg.b.wt.)

Body Weights on															
Animal No.	Sex	0 Week	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal Sacrifice
1	M	126	148	160	171	183	193	201	206	211	215	219	222	226	229
2	M	133	149	159	170	181	190	199	205	210	215	220	224	227	231
3	M	128	152	165	177	188	198	206	211	217	221	226	231	235	238
4	M	130	152	164	175	185	193	201	206	210	215	219	223	227	230
5	M	131	153	167	178	188	197	206	212	217	221	224	229	232	235
6	M	134	146	158	168	179	189	197	202	207	217	222	225	228	232
7	M	139	152	164	175	186	195	202	208	212	220	226	229	233	236
8	M	133	151	164	176	188	197	204	210	216	219	223	227	230	233
9	M	134	158	170	180	191	199	208	214	219	224	228	231	235	239
10	M	125	145	158	170	181	190	198	203	209	212	217	222	226	229
Mean		131.3	150.6	162.9	174	185	194.1	202.2	207.7	212.8	217.9	222.4	226.3	229.9	233.2
± S.D.		± 4.22	± 3.78	± 4.04	± 4.00	± 3.89	± 3.63	± 3.71	± 3.97	± 4.10	± 3.70	± 3.63	± 3.56	± 3.60	± 3.65



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.14  
WEEKLY BODY WEIGHT DATA (in gms) OF FEMALE RATS  
DURATION : 90 DAYS GROUP : NHH 44 Bt-COTTON SEEDS (1000 mg/ kg.b.wt.)

Body Weights on															
Animal No.	Sex	0 Week	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal Sacrifice
1	F	122	139	152	164	175	184	192	198	202	207	211	215	218	222
2	F	136	154	166	177	189	197	204	209	213	218	223	228	231	234
3	F	134	154	165	177	188	198	205	211	216	221	226	229	233	236
4	F	131	152	165	176	188	197	205	210	214	217	222	225	228	231
5	F	128	151	163	175	186	194	203	207	213	218	223	226	229	232
6	F	130	148	161	174	184	193	200	206	211	216	223	227	231	234
7	F	126	147	159	170	182	191	198	203	208	214	217	222	225	229
8	F	131	153	166	178	190	198	204	209	213	218	224	228	232	235
9	F	134	151	162	173	184	192	200	206	211	215	219	223	226	229
10	F	132	153	165	176	188	197	205	210	214	218	222	226	229	233
Mean		130.4	150.2	162.4	174	185.4	194.1	201.6	206.9	211.5	216.2	221	224.9	228.2	231.5
±		±	±	±	±	±	±	±	±	±	±	±	±	±	±
S.D		4.17	4.59	4.33	4.22	4.45	4.38	4.20	3.96	3.98	3.77	4.32	4.12	4.39	4.09



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.15  
WEEKLY BODY WEIGHT DATA (in gms) OF MALE RATS  
DURATION : 90 DAYS GROUP : NHH 44 NON Bt-COTTON SEEDS (1000 mg/ kg.b.wt.)

Body Weights on															
Animal No.	Sex	0 Week	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal Sacrifice
1	M	133	145	157	169	180	189	196	201	206	211	216	220	223	227
2	M	126	148	162	175	187	195	202	208	214	218	222	227	230	233
3	M	130	146	159	171	182	190	198	203	208	212	216	220	224	228
4	M	133	154	166	177	188	198	206	210	214	219	223	228	231	234
5	M	131	149	161	172	184	193	200	206	210	215	218	221	224	228
6	M	129	148	160	172	182	191	199	205	210	214	217	220	224	227
7	M	135	155	168	181	192	200	208	214	218	221	226	230	233	236
8	M	139	154	166	177	189	198	205	210	216	220	225	229	232	235
9	M	137	155	168	180	191	199	206	210	214	221	224	227	231	234
10	M	132	151	163	174	186	195	203	208	213	218	222	225	228	231
Mean		132.5	150.5	163	174.8	186.1	194.8	202.3	207.5	212.3	216.9	220.9	224.7	228	231.3
±		±	±	±	±	±	±	±	±	±	±	±	±	±	±
S.D.		3.84	3.81	3.86	3.94	4.04	3.94	3.97	3.84	3.71	3.67	3.81	4.06	3.89	3.53



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.16  
WEEKLY BODY WEIGHT DATA (in gms) OF FEMALE RATS  
DURATION : 90 DAYS GROUP : NHH 44 NON Bt-COTTON SEEDS (1000 mg/ kg.b.wt.)

Body Weights on															
Animal No.	Sex	0 Week	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal Sacrifice
1	F	128	144	156	168	179	188	196	203	208	213	218	222	226	229
2	F	132	149	162	175	187	196	203	208	212	216	220	223	227	230
3	F	130	150	163	175	188	196	204	209	214	217	221	226	230	234
4	F	133	149	161	172	183	192	199	205	209	214	219	223	226	229
5	F	135	151	162	174	184	193	201	207	211	216	220	224	228	233
6	F	138	156	168	179	190	200	208	213	219	223	226	231	234	237
7	F	131	152	163	176	186	196	205	211	216	219	223	227	230	234
8	F	125	144	157	168	179	188	195	202	208	212	217	221	224	227
9	F	134	153	164	175	187	195	203	207	212	217	220	226	229	233
10	F	137	154	166	178	189	197	204	210	214	218	222	227	230	233
Mean		132.3	150.2	162.2	174	185.2	194.1	201.8	207.5	212.3	216.5	220.6	225	228.4	231.9
±		±	±	±	±	±	±	±	±	±	±	±	±	±	±
S.D		4.00	3.94	3.65	3.71	3.88	3.87	4.08	3.47	3.56	3.17	2.59	2.98	2.84	3.03



**SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH**

**PROJECT NO. : TOX-355B**  
**PRODUCT : NHH 44 Bt-COTTON SEEDS**  
**STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS**  
**REPORT NO. : 000046990**  
**DATE : 18.5.2007**

**Confidential**

**TABLE - 1.17**  
**MEAN WEEKLY BODY WEIGHT GAIN DATA OF MALE RATS 90 DAYS ORAL STUDY**

Week	1	2	3	4	5	6	7	8	9	10	11	12	13 Terminal kill
<b>Control ( Corn Oil Only)</b>	13.8 ± 4.32	26 ± 4.27	38.1 ± 4.20	49.5 ± 4.28	58 ± 4.67	65.7 ± 4.55	71.4 ± 4.06	76.4 ± 3.84	82.3 ± 4.19	86.3 ± 4.08	90.5 ± 3.63	93.8 ± 3.55	96.9 ± 3.63
<b>NHH 44 Bt- Cotton seeds</b>	19.3 ± 4.37	31.6 ± 4.88	42.7 ± 5.14	53.7 ± 5.10	62.8 ± 5.07	70.9 ± 5.24	76.4 ± 5.15	81.5 ± 5.54	86.6 ± 3.92	91.1 ± 3.54	95 ± 4.00	98.6 ± 4.20	101.9 ± 4.04
<b>NHH 44 Non Bt- Cotton seeds</b>	18 ± 2.98	30.5 ± 3.34	42.3 ± 3.71	53.6 ± 3.78	62.3 ± 3.59	69.8 ± 3.74	75 ± 4.00	79.8 ± 4.05	84.4 ± 3.72	88.4 ± 3.57	92.2 ± 3.97	95.5 ± 3.84	98.8 ± 3.58

\* P ≤ 0.05



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.18  
MEAN WEEKLY BODY WEIGHT GAIN DATA OF FEMALE RATS 90 DAYS ORAL STUDY

Week	1	2	3	4	5	6	7	8	9	10	11	12	13 Terminal kill
Control ( Corn Oil Only)	15.9 ± 2.85	28 ± 3.02	40.2 ± 2.94	52.2 ± 1.48	60.9 ± 1.52	68.8 ± 1.81	73.2 ± 4.21	78 ± 3.92	82.2 ± 3.79	85.8 ± 3.65	89.9 ± 3.90	93 ± 3.89	96.5 ± 4.25
NHH 44 Bt- Cotton seeds	19.8 ± 2.15	32 ± 2.36	43.6 ± 2.50	55 ± 2.71	63.7 ± 2.75	71.2 ± 2.78	76.5 ± 2.37	81.1 ± 2.51	85.8 ± 2.66	90.6 ± 2.99	94.5 ± 2.72	97.8 ± 2.97	101.1 ± 2.96
NHH 44 Non Bt- Cotton seeds	17.9 ± 1.79	29.9 ± 1.97	41.7 ± 2.21	52.9 ± 2.69	61.8 ± 2.66	69.5 ± 2.92	75.2 ± 2.82	80 ± 3.27	84.2 ± 2.66	88.3 ± 2.79	92.7 ± 2.71	96.1 ± 2.73	99.6 ± 2.80

\* P ≤ 0.05



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.19  
WEEKLY BODY WEIGHT GAIN DATA (in gms) OF MALE RATS  
DURATION : 90 DAYS GROUP : CONTROL (Vehicle- Corn Oil)

Body Weights on														
Animal No.	Sex	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal kill
1	M	17	29	41	52	61	68	73	78	83	88	93	96	100
2	M	12	25	38	49	57	65	71	76	82	86	90	93	96
3	M	10	22	33	43	51	58	64	70	75	79	84	88	91
4	M	11	24	36	48	57	65	71	78	82	86	91	94	97
5	M	6	18	31	43	51	60	67	72	88	92	95	98	101
6	M	18	31	43	54	62	69	75	79	86	90	94	98	101
7	M	18	30	43	55	65	72	77	82	86	89	93	96	99
8	M	17	28	40	51	60	68	73	78	81	86	90	94	97
9	M	11	23	35	47	55	62	68	72	76	80	85	88	91
10	M	18	30	41	53	61	70	75	79	84	87	90	93	96
Mean ± S.D.		13.8 ± 4.32	26 ± 4.27	38.1 ± 4.20	49.5 ± 4.28	58 ± 4.67	65.7 ± 4.55	71.4 ± 4.06	76.4 ± 3.84	82.3 ± 4.19	86.3 ± 4.08	90.5 ± 3.63	93.8 ± 3.55	96.9 ± 3.63



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.20  
WEEKLY BODY WEIGHT GAIN DATA (in gms) OF FEMALE RATS  
DURATION : 90 DAYS GROUP : CONTROL (Vehicle- Corn Oil)

Body Weights on														
Animal No.	Sex	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal kill
1	F	15	27	40	52	60	68	73	78	81	85	89	92	95
2	F	17	28	40	51	59	66	70	74	78	81	84	87	91
3	F	18	30	42	53	63	71	76	82	87	89	92	95	98
4	F	21	33	45	55	63	71	76	80	84	89	93	96	103
5	F	18	31	42	53	62	71	77	81	85	87	93	96	99
6	F	14	27	39	51	60	68	74	79	83	86	90	94	97
7	F	14	26	38	50	60	68	73	79	83	87	92	95	98
8	F	17	29	42	53	61	68	63	69	74	78	82	85	88
9	F	14	27	40	51	59	67	73	77	82	87	91	95	98
10	F	11	22	34	53	62	70	77	81	85	89	93	95	98
Mean		15.9	28	40.2	52.2	60.9	68.8	73.2	78	82.2	85.8	89.9	93	96.5
±		±	±	±	±	±	±	±	±	±	±	±	±	±
S.D.		2.85	3.02	2.94	1.48	1.52	1.81	4.21	3.92	3.79	3.65	3.90	3.89	4.25



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.21  
WEEKLY BODY WEIGHT GAIN DATA (in gms) OF MALE RATS  
DURATION : 90 DAYS GROUP : NHH 44 Bt-COTTON SEEDS (1000 mg/ kg.b.wt.)

Body Weights on														
Animal No.	Sex	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal kill
1	M	22	34	45	57	67	75	80	85	89	93	96	100	103
2	M	16	26	37	48	57	66	72	77	82	87	91	94	98
3	M	24	37	49	60	70	78	83	89	93	98	103	107	110
4	M	22	34	45	55	63	71	76	80	85	89	93	97	100
5	M	22	36	47	57	66	75	81	86	90	93	98	101	104
6	M	12	24	34	45	55	63	68	73	83	88	91	94	98
7	M	13	25	36	47	56	63	69	73	81	87	90	94	97
8	M	18	31	43	55	64	71	77	83	86	90	94	97	100
9	M	24	36	46	57	65	74	80	85	90	94	97	101	105
10	M	20	33	45	56	65	73	78	84	87	92	97	101	104
Mean		19.3	31.6	42.7	53.7	62.8	70.9	76.4	81.5	86.6	91.1	95	98.6	101.9
±		±	±	±	±	±	±	±	±	±	±	±	±	±
S.D.		4.37	4.88	5.14	5.10	5.07	5.24	5.15	5.54	3.92	3.54	4.00	4.20	4.04



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

sTABLE - 1.22  
WEEKLY BODY WEIGHT GAIN DATA (in gms) OF FEMALE RATS  
DURATION : 90 DAYS GROUP : NHH 44 Bt-COTTON SEEDS (1000 mg/ kg.b.wt.)

Body Weights on														
Animal No.	Sex	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal kill
1	F	17	30	42	53	62	70	76	80	85	89	93	96	100
2	F	18	30	41	53	61	68	73	77	82	87	92	95	98
3	F	20	31	43	54	64	71	77	82	87	92	95	99	102
4	F	21	34	45	57	66	74	79	83	86	91	94	97	100
5	F	23	35	47	58	66	75	79	85	90	95	98	101	104
6	F	18	31	44	54	63	70	76	81	86	93	97	101	104
7	F	21	33	44	56	65	72	77	82	88	91	96	99	103
8	F	22	35	47	59	67	73	78	82	87	93	97	101	104
9	F	17	28	39	50	58	66	72	77	81	85	89	92	95
10	F	21	33	44	56	65	73	78	82	86	90	94	97	101
Mean		19.8	32	43.6	55	63.7	71.2	76.5	81.1	85.8	90.6	94.5	97.8	101.1
±		±	±	±	±	±	±	±	±	±	±	±	±	±
S.D.		2.15	2.36	2.50	2.71	2.75	2.78	2.37	2.51	2.66	2.99	2.72	2.97	2.96



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.23  
WEEKLY BODY WEIGHT GAIN DATA (in gms) OF MALE RATS  
DURATION : 90 DAYS GROUP : NHH 44 NON Bt-COTTON SEEDS (1000 mg/ kg.b.wt.)

Body Weights on														
Animal No.	Sex	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal kill
1	M	12	24	36	47	56	63	68	73	78	83	87	90	94
2	M	22	36	49	61	69	76	82	88	92	96	101	104	107
3	M	16	29	41	52	60	68	73	78	82	86	90	94	98
4	M	21	33	44	55	65	73	77	81	86	90	95	98	101
5	M	18	30	41	53	62	69	75	79	84	87	90	93	97
6	M	19	31	43	53	62	70	76	81	85	88	91	95	98
7	M	20	33	46	57	65	73	79	83	86	91	95	98	101
8	M	15	27	38	50	59	66	71	77	81	86	90	93	96
9	M	18	31	43	54	62	69	73	77	84	87	90	94	97
10	M	19	31	42	54	63	71	76	81	86	90	93	96	99
Mean		18	30.5	42.3	53.6	62.3	69.8	75	79.8	84.4	88.4	92.2	95.5	98.8
±		±	±	±	±	±	±	±	±	±	±	±	±	±
S.D.		2.98	3.34	3.71	3.78	3.59	3.74	4.00	4.05	3.72	3.57	3.97	3.84	3.58



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

PROJECT NO. : TOX-355B  
PRODUCT : NHH 44 Bt-COTTON SEEDS  
STUDY : SUB CHRONIC ORAL TOXICITY STUDY IN RATS  
REPORT NO. : 000046990  
DATE : 18.5.2007

Confidential

TABLE - 1.24  
WEEKLY BODY WEIGHT GAIN DATA (in gms) OF FEMALE RATS  
DURATION : 90 DAYS GROUP : NHH 44 NON Bt-COTTON SEEDS (1000 mg/ kg.b.wt.)

Body Weights on														
Animal No.	Sex	1 <sup>st</sup> Week	2 <sup>nd</sup> Week	3 <sup>rd</sup> Week	4 <sup>th</sup> Week	5 <sup>th</sup> Week	6 <sup>th</sup> Week	7 <sup>th</sup> Week	8 <sup>th</sup> Week	9 <sup>th</sup> Week	10 <sup>th</sup> Week	11 <sup>th</sup> Week	12 <sup>th</sup> Week	13 <sup>th</sup> Week Terminal kill
1	F	16	28	40	51	60	68	75	80	85	90	94	98	101
2	F	17	30	43	55	64	71	76	80	84	88	91	95	98
3	F	20	33	45	58	66	74	79	84	87	91	96	100	104
4	F	16	28	39	50	59	66	72	76	81	86	90	93	96
5	F	16	27	39	49	58	66	72	76	81	85	89	93	98
6	F	18	30	41	52	62	70	75	81	85	88	93	96	99
7	F	21	32	45	55	65	74	80	85	88	92	96	99	103
8	F	19	32	43	54	63	70	77	83	87	92	96	99	102
9	F	19	30	41	53	61	69	73	78	83	86	92	95	99
10	F	17	29	41	52	60	67	73	77	81	85	90	93	96
Mean		17.9	29.9	41.7	52.9	61.8	69.5	75.2	80	84.2	88.3	92.7	96.1	99.6
±		±	±	±	±	±	±	±	±	±	±	±	±	±
S.D.		1.79	1.97	2.21	2.69	2.66	2.92	2.82	3.27	2.66	2.79	2.71	2.73	2.80