TABLE 48

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR DEAD AND MORIBUND SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 160-167

TISSUE AND OBSERVATION	Sex	MALE				FEMALE			
	Group No.	G1	G2	G3	G4	G1	G2	G3	G4
	Dose (ppm)	0	100	1000	10000	0	100	1000	10000
	No.of rats	50	50	50	50	50	50	50	50
	No.of rats examined	30	30	32	21	26	24	17	29
1. SALIVARY GLAND		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
2. ESOPHAGUS		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
3. STOMACH		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
Adenocarcinoma		0	0	1	0	0	0	0	0
4. DUODENUM		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
5. ILEUM		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
6. COLON		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(28)
7. PANCREAS		(28)	(30)	(32)	(20)	(26)	(23)	(16)	(28)
Islet cell adenoma		1	0	0	0	0	0	0	0
Cholangio-carcinoma-metastatic		0	1	0	0	1	0	0	0
Undifferentiated Sacrcoma metastatic		0	0	1	0	0	0	0	0
Histiocytic sarcoma metastatic		0	0	0	0	1	0	0	0
8. LIVER		(30)	(30)	(32)	(21)	(26)	(23)	(17)	(29)
Cholangiocarcinoma		0	2	2	2	1	0	0	0
Hepatocellular adenoma		9	9	6	6	2	8	3	5

contd.

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.

TABLE 48 contd.

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR DEAD AND MORIBUND SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 160-167

TISSUE AND OBSERVATION	Sex	MALE				FEMALE			
	Group No.	G1	G2	G3	G4	G1	G2	G3	G4
	Dose (ppm)	0	100	1000	10000	0	100	1000	10000
	No.of rats	50	50	50	50	50	50	50	50
	No.of rats examined	30	30	32	21	26	24	17	29
8. LIVER contd.		(30)	(30)	(32)	(21)	(26)	(23)	(17)	(29)
Hepatocellular carcinoma		12	12	9	5	4	4	2	5
Intrahepatic bile duct adenoma		1	1	0	0	0	0	0	0
Histiocytic sarcoma		2	0	2	1	1	0	0	0
Tumour emboli		0	0	1	1	0	0	0	0
Fibrosarcoma		0	1	0	0	0	0	0	0
9. LUNGS		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
Adenoma		0	0	0	0	0	1	0	0
Histiocytic sarcoma-metastatic		1	0	1	1	1	0	0	0
Cholangiocarcinoma-metastatic		0	1	0	0	0	0	0	0
Hepatocellular carcinoma- metastatic		0	1	0	1	0	0	0	0
Bronchio alveolar adenoma		0	0	0	0	0	0	1	0
Squamous cell carcinoma-metastatic		1	0	0	0	0	0	0	0
Giant cell tumour		0	0	0	1	0	0	0	0
Fibroma		0	0	0	0	0	1	0	0
Round cell sarcoma metastatic		0	0	0	0	0	0	1	0
10. TRACHEA		(29)	(30)	(32)	(21)	(26)	(24)	(17)	(29)

contd.

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.

TABLE 48 contd.

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR DEAD AND MORIBUND SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 160-167

TISSUE AND OBSERVATION	MALE				FEMALE			
Sex								
Group No.	G1	G2	G3	G4	G1	G2	G3	G4
Dose (ppm)	0	100	1000	10000	0	100	1000	10000
No.of rats	50	50	50	50	50	50	50	50
No.of rats examined	30	30	32	21	26	24	17	29
11. HEART	(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
Histiocytic sarcoma-metastatic	1	0	1	1	0	0	0	0
Round cell sarcoma of pericardium	0	0	0	0	0	0	1	0
12. AORTA	(16)	(30)	(32)	(21)	(20)	(24)	(17)	(12)
13. SPLEEN	(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
Cholangiocarcinoma-metastatic	0	1	0	0	0	0	0	0
14. MESENTERIC LYMPH NODES	(27)	(26)	(31)	(21)	(23)	(20)	(17)	(28)
15. MEDIASTINAL LYMPH NODE	(28)	(28)	(30)	(20)	(26)	(22)	(16)	(29)
Histiocytic sarcoma-metastatic	1	0	1	0	1	0	0	0
Cholangiocarcinoma-metastatic	0	1	0	0	1	0	0	0
Hepatocellular carcinoma-metastatic	0	1	0	0	0	0	0	0
Giant cell tumour	0	0	0	1	0	0	0	0
Histiocyctic sarcoma	0	0	0	1	0	0	0	0
16. MANDIBULAR LYMPH NODE	(29)	(29)	(32)	(21)	(26)	(24)	(17)	(29)

contd.

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.

TABLE 48 contd.

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR DEAD AND MORIBUND SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 160-167

TISSUE AND OBSERVATION	Sex	MALE				FEMALE			
	Group No.	G1	G2	G3	G4	G1	G2	G3	G4
	Dose (ppm)	0	100	1000	10000	0	100	1000	10000
	No.of rats	50	50	50	50	50	50	50	50
	No.of rats examined	30	30	32	21	26	24	17	29
17. KIDNEYS		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
Cholangio carcinoma-metastatic		0	1	0	0	0	0	0	0
Histiosarcoma metastatic		0	0	1	0	0	0	0	0
18. URINARY BLADDER		(27)	(30)	(32)	(20)	(26)	(24)	(16)	(28)
Transitional cell Carcinoma		0	0	0	0	0	0	0	1
19. TESTES		(30)	(30)	(31)	(21)	NA	NA	NA	NA
Leydig cell tumour		0	0	2	0	NA	NA	NA	NA
Seminoma		0	0	1	0	NA	NA	NA	NA
20. EPIDIDYMES		(30)	(30)	(32)	(21)	NA	NA	NA	NA
Undifferentiated sarcoma		0	0	1	0	NA	NA	NA	NA
21. PROSTATE		(28)	(30)	(31)	(21)	NA	NA	NA	NA
22. SEMINAL VESICLES		(29)	(30)	(31)	(21)	NA	NA	NA	NA
23. COAGULATING GLANDS		(28)	(26)	(31)	(21)	NA	NA	NA	NA
24. OVARIES		NA	NA	NA	NA	(25)	(24)	(17)	(29)

contd.

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.

TABLE 48 contd.

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR DEAD AND MORIBUND SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 160-167

TISSUE AND OBSERVATION	Sex	MALE				FEMALE			
	Group No.	G1	G2	G3	G4	G1	G2	G3	G4
	Dose (ppm)	0	100	1000	10000	0	100	1000	10000
	No.of rats	50	50	50	50	50	50	50	50
	No.of rats examined	30	30	32	21	26	24	17	29
25. UTERUS		NA	NA	NA	NA	(26)	(24)	(17)	(29)
Adenocarcinoma		NA	NA	NA	NA	0	0	1	0
Anaplastic carcinoma		NA	NA	NA	NA	0	1	0	0
Leiomyosarcoma		NA	NA	NA	NA	0	0	0	1
26. VAGINA		NA	NA	NA	NA	(26)	(24)	(17)	(29)
27. BRAIN		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
Squamous cell carcinoma-metastatic		0	0	0	1	0	0	0	0
28. THYROIDS		(26)	(26)	(29)	(21)	(26)	(24)	(17)	(27)
'C' cell adenoma		0	0	1	0	0	0	1	0
29. PARATHYROIDS		(4)	(2)	(2)	(7)	(3)	(2)	(3)	(1)
30. PITUITARY		(29)	(27)	(30)	(20)	(25)	(22)	(16)	(29)
Adenocarcinoma		0	1	0	0	0	0	0	0
Adenoma		2	2	3	1	5	8	3	5

contd.

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.

TABLE 48 contd.

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR DEAD AND MORIBUND SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 160-167

TISSUE AND OBSERVATION	Sex	MALE				FEMALE			
	Group No.	G1	G2	G3	G4	G1	G2	G3	G4
	Dose (ppm)	0	100	1000	10000	0	100	1000	10000
	No.of rats	50	50	50	50	50	50	50	50
	No.of rats examined	30	30	32	21	26	24	17	29
31. ADRENALS		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
Cortical cell adenoma		2	0	0	0	0	0	1	0
Pheochromocytoma		7	3	4	4	0	0	0	2
32. EYES		(30)	(30)	(30)	(21)	(25)	(23)	(17)	(29)
33. BONE MARROW (SMEAR)		(27)	(28)	(28)	(21)	(21)	(23)	(17)	(26)
34. SKIN		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(28)
35. NASAL PASSAGE		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
36. TONGUE		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
37. THYMUS		(28)	(29)	(31)	(20)	(24)	(24)	(16)	(28)
Thymoma		0	0	0	0	0	1	0	0
38. MUSCLE FEMORAL		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
39. SPINAL CORD		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)

contd.

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.

TABLE 48 contd.

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR DEAD AND MORIBUND SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 160-167

TISSUE AND OBSERVATION	Sex	MALE				FEMALE			
	Group No.	G1	G2	G3	G4	G1	G2	G3	G4
	Dose (ppm)	0	100	1000	10000	0	100	1000	10000
	No.of rats	50	50	50	50	50	50	50	50
	No.of rats examined	30	30	32	21	26	24	17	29
40. SCIATIC NERVES		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
41. PREPUTIAL GLANDS		(30)	(30)	(32)	(21)	NA	NA	NA	NA
42. MAMMARY GLAND		NA	NA	NA	NA	(23)	(22)	(16)	(28)
Adenoma		NA	NA	NA	NA	1	1	3	3
Adenocarcinoma		NA	NA	NA	NA	2	0	0	0
43. JEJUNUM		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
44. CECUM		(30)	(29)	(32)	(21)	(26)	(24)	(17)	(29)
45. RECTUM		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
46. TUMOUR/MASS		(30)	(30)	(31)	(21)	(26)	(24)	(17)	(29)
Squamous cell carcinoma		0	0	1	0	0	0	0	0
Histiocytic sarcoma-metastatic		0	0	0	1	1	0	0	0
Cholangiocarcinoma-metastatic		0	2	0	0	1	0	0	0
Giant cell tumour		0	0	0	1	0	0	0	0

contd.

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.

TABLE 48 contd.

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR DEAD AND MORIBUND SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 160-167

TISSUE AND OBSERVATION	Sex	MALE				FEMALE			
	Group No.	G1	G2	G3	G4	G1	G2	G3	G4
	Dose (ppm)	0	100	1000	10000	0	100	1000	10000
	No.of rats	50	50	50	50	50	50	50	50
	No.of rats examined	30	30	32	21	26	24	17	29
47. OPTIC NERVES		(27)	(27)	(25)	(20)	(22)	(21)	(16)	(27)
48. BONE (FEMUR) WITH JOINT		(29)	(30)	(31)	(21)	(26)	(24)	(17)	(28)
Histiocytic sarcoma-metastatic		1	0	0	0	0	0	0	0
49. TAIL		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
50. MESENTRY		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
51. STERNUM		(29)	(29)	(30)	(21)	(26)	(24)	(17)	(29)
Histiocytic sarcoma-metastatic		1	0	0	0	0	0	0	0
52. LYMPH NODE (OTHERS)		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)
53. PELVIC CAVITY		(30)	(30)	(32)	(21)	(26)	(24)	(17)	(29)

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.

TABLE 49

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR TERMINALLY SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 168-175

TISSUE AND OBSERVATION	MALE				FEMALE			
Sex								
Group No.	G1	G2	G3	G4	G1	G2	G3	G4
Dose (ppm)	0	100	1000	10000	0	100	1000	10000
No.of rats	50	50	50	50	50	50	50	50
No.of rats examined	20	20	18	29	24	26	32	21
1. SALIVARY GLAND	(20)	-	-	(29)	(24)	(1)	-	(21)
Duct papilloma	1	-	-	0	0	0	-	0
2. ESOPHAGUS	(20)	-	-	(29)	(24)	-	-	(21)
3. STOMACH	(20)	(1)	-	(29)	(24)	-	-	(21)
Papilloma-forestomach	0	1	-	0	0	-	-	1
4. DUODENUM	(20)	-	-	(29)	(24)	-	-	(21)
5. ILEUM	(20)	-	-	(29)	(24)	(1)	-	(21)
6. COLON	(20)	-	-	(29)	(24)	-	-	(21)
7. PANCREAS	(20)	-	-	(29)	(24)	-	-	(21)
Islet cell adenoma	2	-	-	1	0	-	-	1
Lymphosarcoma metastatic	1	-	-	0	0	-	-	0
8. LIVER	(20)	(20)	(16)	(29)	(24)	(25)	(32)	(21)
Cholangiocarcinoma	1	1	0	1	0	0	0	0
Hepatocellular adenoma	15	13	4	15	16	10	16	8

contd.

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.

TABLE 49 contd.

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR TERMINALLY SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 168-175

TISSUE AND OBSERVATION	Sex	MALE				FEMALE			
	Group No.	G1	G2	G3	G4	G1	G2	G3	G4
	Dose (ppm)	0	100	1000	10000	0	100	1000	10000
	No.of rats	50	50	50	50	50	50	50	50
	No.of rats examined	20	20	18	29	24	26	32	21
8. LIVER contd.		(20)	(20)	(16)	(29)	(24)	(25)	(32)	(21)
Hepatocellular carcinoma		9	16	9	19	6	11	12	4
Intrahepatic bile duct adenoma		1	0	0	0	0	1	0	0
Histiocytic sarcoma		0	1	1	0	0	0	3	0
Tumour emboli		1	0	1	0	0	0	0	0
Lymphosarcoma		1	0	0	0	0	0	0	0
Benign mixed intra-hepatic bile duct adenoma		0	0	1	0	0	0	0	0
9. LUNGS		(20)	(4)	(3)	(29)	(24)	(4)	(5)	(21)
Bronchio-alveolar adenocarcinoma		0	0	1	0	0	0	0	0
Hepatocellular carcinoma- metastatic		0	0	1	0	0	0	0	0
Bronchio alveolar adenoma		0	0	0	0	1	0	0	1
Histiocytic sarcoma		0	0	0	0	0	0	1	0
10. TRACHEA		(20)	-	-	(29)	(24)	(1)	-	(21)
Histiocytic sarcoma-metastatic		0	-	-	0	0	1	-	0
11. HEART		(20)	-	-	(29)	(24)	(1)	(1)	(21)
Histiocytic sarcoma-metastatic		0	-	-	0	0	1	1	0

contd.

RALLIS RESEARCH CENTRE
Peenya Bangalore 560058.

TABLE 49 contd.

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR TERMINALLY SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 168-175

TISSUE AND OBSERVATION	Sex	MALE				FEMALE			
	Group No.	G1	G2	G3	G4	G1	G2	G3	G4
	Dose (ppm)	0	100	1000	10000	0	100	1000	10000
	No.of rats	50	50	50	50	50	50	50	50
	No.of rats examined	20	20	18	29	24	26	32	21
12. AORTA		(20)	-	-	(29)	(24)	-	-	(21)
13. SPLEEN		(20)	-	(3)	(29)	(24)	-	(2)	(21)
14. MESENTERIC LYMPH NODES		(20)	-	-	(29)	(22)	-	-	(21)
Histiocyctic sarcoma		1	-	-	0	0	-	-	0
15. MEDIASTINAL LYMPH NODE		(19)	(1)	-	(29)	(22)	(1)	-	(21)
Histiocyctic sarcoma		0	0	-	0	0	1	-	0
16. MANDIBULAR LYMPH NODE		(19)	(6)	(5)	(29)	(24)	(9)	(6)	(21)
Lymphoma		0	0	0	2	0	0	0	0
17. KIDNEYS		(20)	(3)	(2)	(29)	(24)	-	(1)	(21)
Lymphosarcoma		0	0	0	0	0	-	1	0
18. URINARY BLADDER		(20)	-	-	(29)	(23)	-	-	(20)

contd.

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.

TABLE 49 contd.

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR TERMINALLY SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 168-175

TISSUE AND OBSERVATION	Sex	MALE				FEMALE			
	Group No.	G1	G2	G3	G4	G1	G2	G3	G4
	Dose (ppm)	0	100	1000	10000	0	100	1000	10000
	No.of rats	50	50	50	50	50	50	50	50
	No.of rats examined	20	20	18	29	24	26	32	21
19. TESTES		(20)	(7)	(1)	(29)	NA	NA	NA	NA
Leydig cell tumour		2	0	0	3	NA	NA	NA	NA
20. EPIDIDYMES		(19)	(1)	(1)	(29)	NA	NA	NA	NA
21. PROSTATE		(19)	-	-	(29)	NA	NA	NA	NA
22. SEMINAL VESICLES		(18)	-	(1)	(29)	NA	NA	NA	NA
23. COAGULATING GLANDS		(17)	-	-	(28)	NA	NA	NA	NA
24. OVARIES		NA	NA	NA	NA	(24)	(10)	(11)	(21)
25. UTERUS		NA	NA	NA	NA	(24)	(10)	(22)	(21)
Adenoma		NA	NA	NA	NA	0	0	0	1
Adenocarcinoma		NA	NA	NA	NA	0	0	2	0
Adenoma papillary		NA	NA	NA	NA	0	1	0	0
Hemangioma		NA	NA	NA	NA	0	0	1	0

contd.

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.

TABLE 49 contd.

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR TERMINALLY SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 168-175

TISSUE AND OBSERVATION	Sex	MALE				FEMALE			
	Group No.	G1	G2	G3	G4	G1	G2	G3	G4
	Dose (ppm)	0	100	1000	10000	0	100	1000	10000
	No.of rats	50	50	50	50	50	50	50	50
	No.of rats examined	20	20	18	29	24	26	32	21
26. BRAIN		(20)	-	-	(29)	(24)	-	-	(21)
Pituitary adenocarcinoma metastatic		0	-	-	0	1	-	-	0
27. THYROIDS		(19)	-	-	(29)	(24)	-	-	(20)
'C' cell adenoma		2	-	-	1	2	-	-	1
28. PARATHYROIDS		(5)	-	-	(29)	(6)	-	-	(3)
29. PITUITARY		(20)	(3)	(1)	(29)	(24)	(11)	(7)	(21)
Adenocarcinoma		0	0	0	0	1	0	0	0
Adenoma		1	2	0	4	2	5	4	1
30. ADRENALS		(20)	(3)	(4)	(29)	(24)	(4)	(7)	(21)
Cortical cell adenoma		1	0	1	0	0	0	2	1
Pheochromocytoma		6	2	2	12	1	0	4	2
Malignant Pheochromocytoma		0	0	1	1	0	0	0	0
31. EYES		(20)	(3)	(4)	(29)	(24)	(3)	(7)	(21)
32. BONE MARROW (SMEAR)		(19)	-	-	(29)	(21)	-	-	(19)
33. SKIN		(20)	-	-	(29)	(24)	(4)	(2)	(21)

contd.

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.

TABLE 49 contd.

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR TERMINALLY SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 168-175

TISSUE AND OBSERVATION	Sex	MALE				FEMALE			
	Group No.	G1	G2	G3	G4	G1	G2	G3	G4
	Dose (ppm)	0	100	1000	10000	0	100	1000	10000
	No.of rats	50	50	50	50	50	50	50	50
	No.of rats examined	20	20	18	29	24	26	32	21
34. THYMUS		(20)	-	-	(29)	(24)	-	-	(21)
Thymoma		0	-	-	0	1	-	-	0
35. MUSCLE FEMORAL		(20)	-	-	(29)	(24)	-	-	(21)
36. SPINAL CORD		(20)	-	-	(29)	(24)	-	-	(21)
37. SCIATIC NERVES		(20)	-	-	(29)	(23)	-	-	(20)
38. PREPUTIAL GLANDS		(20)	-	-	(29)	NA	NA	NA	NA
39. MAMMARY GLAND		NA	NA	NA	NA	(17)	(8)	(17)	(20)
Adenoma		NA	NA	NA	NA	1	2	5	2
Adenocarcinoma		NA	NA	NA	NA	1	0	0	0
40. JEJUNUM		(20)	-	-	(29)	(24)	-	-	(21)
41. CECUM		(20)	(1)	-	(29)	(24)	-	-	(21)
Histiocytic sarcoma		0	1	-	0	0	-	-	0
42. RECTUM		(20)	-	-	(29)	(24)	-	-	(21)

contd.

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.

TABLE 49 contd.

COMBINED CHRONIC TOXICITY AND CARCINOGENICITY STUDY WITH GLYPHOSATE TECHNICAL IN WISTAR RATS

SUMMARY OF HISTOPATHOLOGICAL (NEOPLASTIC) FINDINGS FOR TERMINALLY SACRIFICED ANIMALS

Number in (): No.of Tissues evaluated/group

Ref.App. 168-175

TISSUE AND OBSERVATION	Sex	MALE				FEMALE			
	Group No.	G1	G2	G3	G4	G1	G2	G3	G4
	Dose (ppm)	0	100	1000	10000	0	100	1000	10000
	No.of rats	50	50	50	50	50	50	50	50
	No.of rats examined	20	20	18	29	24	26	32	21
43. TUMOUR/MASS		(20)	(2)	(3)	(29)	(24)	(4)	(1)	(21)
Fibroma		0	1	1	0	1	0	0	0
Undifferentiated sarcoma		0	0	0	0	1	0	0	0
44. OPTIC NERVES		(16)	-	-	(29)	(23)	(1)	-	(18)
45. BONE (FEMUR) WITH JOINT		(20)	-	-	(29)	(24)	-	-	(21)
46. MESENTERY		(20)	-	-	(29)	(24)	-	(1)	(21)
47. STERNUM		(20)	-	-	(29)	(24)	-	-	(21)
48. LYMPH NODE (OTHERS)		(20)	(1)	-	(29)	(24)	-	-	(21)
49. PELVIC CAVITY		(20)	-	-	(29)	(24)	(1)	-	(21)

RALLIS RESEARCH CENTRE
Peenya, Bangalore - 560 058.