

Study Number: MOG03040
Test Type: MOG - Range Finding
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Deoxynivalenol
CAS Number: 51481-10-8

Date Report Requested: 07/15/2020
Time Report Requested: 10:26:26
Lab: Southern Research

Study Number:

MOG03040

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

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F0 Female

Treatment Groups (mg/kg/day)

	0	0.03	0.1	0.3	1.0	3.0
Disposition Summary						
Animals Initially In Study	16	10	10	10	16	10
Early Deaths						
Euthanized, moribund	1				1	
Scheduled Deaths						
Scheduled sacrifice, terminal (GD 18, LD 4 - 28)	15	10	10	10	15	10
Number of Animals Examined	1				1	

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F0 Female

Treatment Groups (mg/kg/day)

	0	0.03	0.1	0.3	1.0	3.0
ALIMENTARY SYSTEM						
ESOPHAGUS	(1)	(0)	(0)	(0)	(1)	(0)
DISCOLORATION; MOTTLED, TGL7					1 (100.0%)	
PERFORATION; TGL5					1 (100.0%)	
THICK; TGL6					1 (100.0%)	
INTESTINE, LARGE, CECUM	(1)	(0)	(0)	(0)	(1)	(0)
CONTENTS; TGL11					1 (100.0%)	
DILATION	1 (100.0%)					
INTESTINE, LARGE, COLON	(1)	(0)	(0)	(0)	(1)	(0)
INTESTINE, LARGE, RECTUM	(1)	(0)	(0)	(0)	(1)	(0)
INTESTINE, SMALL, DUODENUM	(1)	(0)	(0)	(0)	(1)	(0)
DILATION	1 (100.0%)					
INTESTINE, SMALL, ILEUM	(1)	(0)	(0)	(0)	(1)	(0)
DILATION	1 (100.0%)					
INTESTINE, SMALL, JEJUNUM	(1)	(0)	(0)	(0)	(1)	(0)
CONTENTS; TGL10					1 (100.0%)	
DILATION	1 (100.0%)					
LIVER	(1)	(0)	(0)	(0)	(1)	(0)
PANCREAS	(1)	(0)	(0)	(0)	(1)	(0)
SALIVARY GLANDS	(0)	(0)	(0)	(0)	(1)	(0)
DISCOLORATION; MOTTLED, TGL1					1 (100.0%)	
THICK; TGL2					1 (100.0%)	
STOMACH, FORESTOMACH	(1)	(0)	(0)	(0)	(1)	(0)
CONTENTS; TGL9					1 (100.0%)	
DILATION	1 (100.0%)					
STOMACH, GLANDULAR	(1)	(0)	(0)	(0)	(1)	(0)
DILATION	1 (100.0%)					

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Treatment Groups (mg/kg/day)

	0	0.03	0.1	0.3	1.0	3.0
CARDIOVASCULAR SYSTEM						
HEART	(1)	(0)	(0)	(0)	(1)	(0)
ENDOCRINE SYSTEM						
ADRENAL GLAND	(1)	(0)	(0)	(0)	(1)	(0)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
OVARY	(1)	(0)	(0)	(0)	(1)	(0)
UTERUS	(1)	(0)	(0)	(0)	(1)	(0)
VAGINA	(1)	(0)	(0)	(0)	(1)	(0)
HEMATOLYMPHOID SYSTEM						
LYMPH NODE, MESENTERIC	(1)	(0)	(0)	(0)	(1)	(0)
SPLEEN	(1)	(0)	(0)	(0)	(1)	(0)
THYMUS	(1)	(0)	(0)	(0)	(1)	(0)
INTEGUMENTARY SYSTEM						
SKIN	(1)	(0)	(0)	(0)	(1)	(0)
ANUS; CRUST; DARK, TGL13					1 (100.0%)	
EYELID; RIGHT; CRUST; RED	1 (100.0%)					
EYELID; CRUST; DARK, TGL12					1 (100.0%)	
NOSE; CRUST; DARK, TGL14					1 (100.0%)	
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						

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F0 Female

Treatment Groups (mg/kg/day)

	0	0.03	0.1	0.3	1.0	3.0
RESPIRATORY SYSTEM						
LUNG	(1)	(0)	(0)	(0)	(1)	(0)
BILATERAL; DISCOLORATION; DARK, TGL8					1 (100.0%)	
DISCOLORATION; MOTTLED	1 (100.0%)					
MEDIASTINUM	(0)	(0)	(0)	(0)	(1)	(0)
EMPHYSEMA; TGL3					1 (100.0%)	
THORAX	(0)	(0)	(0)	(0)	(1)	(0)
FLUID; RED, TGL4					1 (100.0%)	
TRACHEA	(1)	(0)	(0)	(0)	(1)	(0)
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
KIDNEY	(1)	(0)	(0)	(0)	(1)	(0)
URETER	(1)	(0)	(0)	(0)	(1)	(0)
URINARY BLADDER	(1)	(0)	(0)	(0)	(1)	(0)

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F1 Female

Treatment Groups (mg/kg/day)

	0	0.03	0.1	0.3	1.0	3.0
Disposition Summary						
Animals Initially In Study	8	5	5	5	5	8
Early Deaths						
Scheduled Deaths						
Scheduled sacrifice, terminal (PND 28)	8	5	5	5	5	8
Number of Animals Examined	8	5	5	5	5	8
Total number litters	6	5	5	5	5	7
ALIMENTARY SYSTEM						
ESOPHAGUS	(5)	(5)	(5)	(5)	(5)	(5)
INTESTINE, LARGE, CECUM	(5)	(5)	(5)	(5)	(5)	(5)
INTESTINE, LARGE, COLON	(5)	(5)	(5)	(5)	(5)	(5)
INTESTINE, LARGE, RECTUM	(5)	(5)	(5)	(5)	(5)	(5)
INTESTINE, SMALL, DUODENUM	(5)	(5)	(5)	(5)	(5)	(5)
INTESTINE, SMALL, ILEUM	(5)	(5)	(5)	(5)	(5)	(5)
INTESTINE, SMALL, JEJUNUM	(5)	(5)	(5)	(5)	(5)	(5)
LIVER	(5)	(5)	(5)	(5)	(5)	(5)
LOBE, MEDIAN; MASS; BROWN, TGL1					1 (20.0%) [1]	
PANCREAS	(5)	(5)	(5)	(5)	(5)	(5)
STOMACH, FORESTOMACH	(5)	(5)	(5)	(5)	(5)	(5)
STOMACH, GLANDULAR	(5)	(5)	(5)	(5)	(5)	(5)
CARDIOVASCULAR SYSTEM						
HEART	(5)	(5)	(5)	(5)	(5)	(5)
ENDOCRINE SYSTEM						
ADRENAL GLAND	(5)	(5)	(5)	(5)	(5)	(5)

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F1 Female

Treatment Groups (mg/kg/day)

	0	0.03	0.1	0.3	1.0	3.0
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
OVARY	(5)	(5)	(5)	(5)	(5)	(5)
UTERUS	(5)	(5)	(5)	(5)	(5)	(5)
VAGINA	(5)	(5)	(5)	(5)	(5)	(5)
HEMATOLYMPHOID SYSTEM						
LYMPH NODE, MESENTERIC	(5)	(5)	(5)	(5)	(5)	(5)
SPLEEN	(5)	(5)	(5)	(5)	(5)	(5)
THYMUS	(5)	(5)	(5)	(5)	(5)	(5)
INTEGUMENTARY SYSTEM						
SKIN	(5)	(5)	(5)	(5)	(5)	(5)
EYELID; BILATERAL; DISCOLORATION; DARK, TGL1						1 (20.0%) [1]
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
BRAIN	(5)	(0)	(0)	(0)	(0)	(4)
NERVE, SCIATIC	(2)	(0)	(0)	(0)	(0)	(1)
NERVE, TIBIAL	(2)	(0)	(0)	(0)	(0)	(1)
NERVE, TRIGEMINAL	(2)	(0)	(0)	(0)	(0)	(1)
SPINAL CORD	(2)	(0)	(0)	(0)	(0)	(1)
RESPIRATORY SYSTEM						
LUNG	(5)	(5)	(5)	(5)	(5)	(5)
TRACHEA	(5)	(5)	(5)	(5)	(5)	(5)

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F1 Female

Treatment Groups (mg/kg/day)

0 0.03 0.1 0.3 1.0 3.0

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

KIDNEY	(5)	(5)	(5)	(5)	(5)	(5)
URETER	(5)	(5)	(5)	(5)	(5)	(5)
URINARY BLADDER	(5)	(5)	(5)	(5)	(5)	(5)

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F1 Male

Treatment Groups (mg/kg/day)

	0	0.03	0.1	0.3	1.0	3.0
Disposition Summary						
Animals Initially In Study	8	5	5	5	5	8
Early Deaths						
Scheduled Deaths						
Scheduled sacrifice, terminal (PND 28)	8	5	5	5	5	8
Number of Animals Examined	8	5	5	5	5	8
Total number litters	5	5	5	5	5	7

ALIMENTARY SYSTEM

ESOPHAGUS	(5)	(5)	(5)	(5)	(5)	(5)
INTESTINE, LARGE, CECUM	(5)	(5)	(5)	(5)	(5)	(5)
INTESTINE, LARGE, COLON	(5)	(5)	(5)	(5)	(5)	(5)
INTESTINE, LARGE, RECTUM	(5)	(5)	(5)	(5)	(5)	(5)
INTESTINE, SMALL, DUODENUM	(5)	(5)	(5)	(5)	(5)	(5)
INTESTINE, SMALL, ILEUM	(5)	(5)	(5)	(5)	(5)	(5)
INTESTINE, SMALL, JEJUNUM	(5)	(5)	(5)	(5)	(5)	(5)
LIVER	(5)	(5)	(5)	(5)	(5)	(5)
PANCREAS	(5)	(5)	(5)	(5)	(5)	(5)
STOMACH, FORESTOMACH	(5)	(5)	(5)	(5)	(5)	(5)
STOMACH, GLANDULAR	(5)	(5)	(5)	(5)	(5)	(5)

CARDIOVASCULAR SYSTEM

HEART	(5)	(5)	(5)	(5)	(5)	(5)
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ENDOCRINE SYSTEM

ADRENAL GLAND	(5)	(5)	(5)	(5)	(5)	(5)
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GENERAL BODY SYSTEM

None

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F1 Male

Treatment Groups (mg/kg/day)

	0	0.03	0.1	0.3	1.0	3.0
GENITAL SYSTEM						
COAGULATING GLAND	(5)	(5)	(5)	(5)	(5)	(5)
EPIDIDYMIS	(5)	(5)	(5)	(5)	(5)	(5)
PROSTATE	(5)	(5)	(5)	(5)	(5)	(5)
SEMINAL VESICLE	(5)	(5)	(5)	(5)	(5)	(5)
TESTES	(5)	(5)	(5)	(5)	(5)	(5)
HEMATOLYMPHOID SYSTEM						
LYMPH NODE, MESENTERIC	(5)	(5)	(5)	(5)	(5)	(5)
SPLEEN	(5)	(5)	(5)	(5)	(5)	(5)
THYMUS	(5)	(5)	(5)	(5)	(5)	(5)
INTEGUMENTARY SYSTEM						
SKIN	(5)	(5)	(5)	(5)	(5)	(5)
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
BRAIN	(3)	(0)	(0)	(0)	(0)	(3)
RESPIRATORY SYSTEM						
LUNG	(5)	(5)	(5)	(5)	(5)	(5)
TRACHEA	(5)	(5)	(5)	(5)	(5)	(5)
SPECIAL SENSES SYSTEM						
None						

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F1 Male

Treatment Groups (mg/kg/day)

	0	0.03	0.1	0.3	1.0	3.0
URINARY SYSTEM						
KIDNEY	(5)	(5)	(5)	(5)	(5)	(5)
URETER	(5)	(5)	(5)	(5)	(5)	(5)
URINARY BLADDER	(5)	(5)	(5)	(5)	(5)	(5)

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LEGEND

Number of animals examined for each tissue shown in parentheses. If none of the animals examined have the specific lesion then there is a blank for that dose group for that specific lesion. The exception to this is if statistical significance is found for a lesion and the control group has no animals with the lesion then a 0 is included for the control group on the table for that lesion.

Number (percent) of animals affected given for each observation

Phase day range of terminal sacrifice shown in parentheses in disposition summary

Statistical analysis performed by Cochran-Armitage (trend) and Fisher Exact (pairwise) tests.

All trend and pairwise p-values are reported as one-sided.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

**** END OF REPORT ****