

**Study Number:** MOG03040

**Test Type:** MOG - Range Finding

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**Study Number:**

**Study Gender:**

**PWG Approval Date**

**PA06: Organ Weights Summary**

**Test Compound:** Deoxynivalenol

**CAS Number:** 51481-10-8

MOG03040

Both

See web page for date of PWG Approval

**Date Report Requested:** 08/06/2020

**Time Report Requested:** 14:10:18

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**F0 Females: GD 18 Bio Samples**

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**Treatment Groups (mg/kg/day)**

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**0**

**1**

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Terminal Body Wt. (g)

317.2 ± 4.9 (3)

325.5 ± 10.7 (3)

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**F0 Females: PND 4 Bio Samples**

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**Treatment Groups (mg/kg/day)**

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**0**

**1**

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Terminal Body Wt. (g)

290.4 ± 11.9 (3)

295.8 ± 10.2 (3)

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**F0 Females**

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**Treatment Groups (mg/kg/day)**

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	<b>0</b>	<b>0.03</b>	<b>0.1</b>	<b>0.3</b>	<b>1</b>
Terminal Body Wt. (g)	282.4 ± 3.6 (9)	286.4 ± 5.4 (10)	275.3 ± 3.1 (10)	284.6 ± 6.5 (10)	287.7 ± 7.7 (9)

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**F0 Females**

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**Treatment Groups**

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**3**

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Terminal Body Wt. (g)

294.7 ± 4.4 (10)

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F1 Males

Treatment Groups (mg/kg/day)

	0	0.03	0.1	0.3	1
Terminal Body Wt. (g)	98.7 ± 2.2 (8)	96.6 ± 3.2 (5)	93.7 ± 1.2 (5)	99.8 ± 2.0 (5)	97.4 ± 2.8 (5)
Brain					
Absolute (g)	1.73 ± 0.02 (3)				
Relative (mg/g)	18.32 ± 0.49 (3)				
R. Kidney					
Absolute (g)	0.55 ± 0.01 (5)	0.52 ± 0.02 (5)	0.50 ± 0.01 (5)	0.55 ± 0.02 (5)	0.55 ± 0.02 (5)
Relative (mg/g)	5.42 ± 0.06 (5)	5.39 ± 0.07 (5)	5.38 ± 0.16 (5)	5.49 ± 0.13 (5)	5.61 ± 0.20 (5)
L. Kidney					
Absolute (g)	0.54 ± 0.01 (5)	0.51 ± 0.02 (5)	0.50 ± 0.02 (5)	0.54 ± 0.02 (5)	0.53 ± 0.02 (5)
Relative (mg/g)	5.39 ± 0.13 (5)	5.30 ± 0.07 (5)	5.31 ± 0.17 (5)	5.41 ± 0.18 (5)	5.48 ± 0.08 (5)
Liver					
Absolute (g)	5.26 ± 0.28 (5)	4.68 ± 0.18 (5)	4.70 ± 0.03 (5)	5.04 ± 0.12 (5)	4.92 ± 0.21 (5)
Relative (mg/g)	51.87 ± 1.54 (5)	48.50 ± 1.86 (5)	50.13 ± 0.65 (5)	50.54 ± 0.63 (5)	50.55 ± 1.72 (5)
Lung					
Absolute (g)	1.10 ± 0.13 (5)	1.03 ± 0.10 (5)	1.12 ± 0.09 (5)	1.23 ± 0.13 (5)	0.95 ± 0.05 (5)
Relative (mg/g)	10.87 ± 1.16 (5)	10.65 ± 0.81 (5)	12.01 ± 1.07 (5)	12.38 ± 1.47 (5)	9.73 ± 0.43 (5)
Spleen					
Absolute (g)	0.398 ± 0.018 (5)	0.352 ± 0.010 (5)	0.365 ± 0.008 (5)	0.377 ± 0.024 (5)	0.360 ± 0.012 (5)
Relative (mg/g)	3.94 ± 0.20 (5)	3.65 ± 0.12 (5)	3.90 ± 0.07 (5)	3.78 ± 0.24 (5)	3.70 ± 0.13 (5)
Thymus					
Absolute (g)	0.456 ± 0.032 (5)	0.400 ± 0.016 (5)	0.398 ± 0.030 (5)	0.455 ± 0.023 (5)	0.412 ± 0.018 (5)
Relative (mg/g)	4.50 ± 0.29 (5)	4.16 ± 0.24 (5)	4.23 ± 0.29 (5)	4.55 ± 0.17 (5)	4.22 ± 0.07 (5)

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**F1 Males**

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	<b>Treatment Groups</b>		
	<b>3</b>		
Terminal Body Wt. (g)	86.5	± 5.2	(8) *
Brain			
Absolute (g)	1.54	± 0.08	(3)
Relative (mg/g)	19.48	± 1.92	(3)
R. Kidney			
Absolute (g)	0.51	± 0.03	(5)
Relative (mg/g)	5.70	± 0.10	(5)
L. Kidney			
Absolute (g)	0.48	± 0.03	(5)
Relative (mg/g)	5.41	± 0.08	(5)
Liver			
Absolute (g)	4.92	± 0.34	(5)
Relative (mg/g)	54.88	± 0.79	(5)
Lung			
Absolute (g)	1.02	± 0.13	(5)
Relative (mg/g)	11.28	± 0.82	(5)
Spleen			
Absolute (g)	0.393	± 0.004	(5)
Relative (mg/g)	4.47	± 0.33	(5)
Thymus			
Absolute (g)	0.359	± 0.039	(5)
Relative (mg/g)	3.98	± 0.23	(5)

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F1 Females

Treatment Groups (mg/kg/day)

	0	0.03	0.1	0.3	1
Terminal Body Wt. (g)	87.6 ± 3.0 (8)	85.5 ± 1.6 (5)	88.0 ± 2.3 (5)	85.0 ± 1.4 (5)	92.4 ± 2.3 (5)
Brain					
Absolute (g)	1.63 ± 0.03 (3)				
Relative (mg/g)	20.27 ± 0.98 (3)				
R. Kidney					
Absolute (g)	0.48 ± 0.01 (5)	0.45 ± 0.01 (5)	0.48 ± 0.02 (5)	0.46 ± 0.01 (5)	0.49 ± 0.01 (5)
Relative (mg/g)	5.21 ± 0.10 (5)	5.32 ± 0.17 (5)	5.46 ± 0.18 (5)	5.37 ± 0.07 (5)	5.36 ± 0.17 (5)
L. Kidney					
Absolute (g)	0.47 ± 0.01 (5)	0.45 ± 0.01 (5)	0.47 ± 0.02 (5)	0.45 ± 0.01 (5)	0.49 ± 0.01 (5)
Relative (mg/g)	5.17 ± 0.13 (5)	5.25 ± 0.13 (5)	5.32 ± 0.18 (5)	5.24 ± 0.07 (5)	5.28 ± 0.19 (5)
Liver					
Absolute (g)	4.44 ± 0.29 (5)	4.16 ± 0.08 (5)	4.49 ± 0.18 (5)	4.22 ± 0.11 (5)	4.74 ± 0.06 (5)
Relative (mg/g)	48.39 ± 2.22 (5) *	48.71 ± 1.22 (5)	51.11 ± 1.76 (5)	49.61 ± 0.68 (5)	51.41 ± 1.20 (5)
Lung					
Absolute (g)	1.14 ± 0.10 (5) **	0.97 ± 0.08 (5)	1.04 ± 0.08 (5)	0.93 ± 0.04 (5)	0.90 ± 0.05 (5) *
Relative (mg/g)	12.40 ± 0.91 (5) **	11.26 ± 0.81 (5)	11.95 ± 1.11 (5)	10.92 ± 0.52 (5)	9.70 ± 0.40 (5) *
Spleen					
Absolute (g)	0.315 ± 0.008 (5)	0.306 ± 0.017 (5)	0.350 ± 0.011 (5)	0.313 ± 0.007 (5)	0.321 ± 0.014 (5)
Relative (mg/g)	3.45 ± 0.10 (5)	3.59 ± 0.23 (5)	3.98 ± 0.11 (5)	3.68 ± 0.09 (5)	3.48 ± 0.13 (5)
Thymus					
Absolute (g)	0.425 ± 0.037 (5)	0.388 ± 0.012 (5)	0.394 ± 0.021 (5)	0.425 ± 0.024 (5)	0.448 ± 0.037 (5)
Relative (mg/g)	4.61 ± 0.27 (5)	4.53 ± 0.09 (5)	4.47 ± 0.17 (5)	4.99 ± 0.21 (5)	4.82 ± 0.29 (5)



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F1 Females

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	Treatment Groups		
	3		
Terminal Body Wt. (g)	73.4	± 5.1	(8) *
Brain			
Absolute (g)	1.53	± 0.01	(3) *
Relative (mg/g)	19.53	± 0.12	(3)
R. Kidney			
Absolute (g)	0.40	± 0.04	(5) *
Relative (mg/g)	5.69	± 0.20	(5)
L. Kidney			
Absolute (g)	0.39	± 0.04	(5) *
Relative (mg/g)	5.54	± 0.19	(5)
Liver			
Absolute (g)	3.81	± 0.48	(5)
Relative (mg/g)	53.98	± 1.64	(5)
Lung			
Absolute (g)	0.65	± 0.07	(5) **
Relative (mg/g)	9.34	± 0.32	(5) **
Spleen			
Absolute (g)	0.338	± 0.029	(5)
Relative (mg/g)	5.10	± 0.76	(5) **
Thymus			
Absolute (g)	0.314	± 0.050	(5)
Relative (mg/g)	4.38	± 0.52	(5)

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## LEGEND

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Data are displayed as mean  $\pm$  SEM (N) unless otherwise noted.

Relative organ weights (organ-weight-to-body-weight ratios) are given as mg organ weight/g body weight

Statistical analysis performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests unless otherwise noted.

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  $P \leq 0.01$

Brain weight endpoints were recorded for control and 3 mg/kg groups only, and were therefore not tested for trend.

Three dams were removed for biological sampling on GD18 from each of the control and 1 mg/kg groups, another three dams, and litters were removed from these groups on LD4.

**\*\* END OF REPORT \*\***