

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

R19G: Pup Mean Body Weight Gain
Test Compound: Deoxynivalenol
CAS Number: 51481-10-8

Date Report Requested: 10/05/2020
Time Report Requested: 09:39:54
Lab: Southern Research

Study Number: MOG03040
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.0.5

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F1 Males

Treatment Groups (mg/kg/day)

Phase	Days	0		0.03		0.1		0.3	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.36 ± 0.11	73 (12)	3.32 ± 0.12	58 (10)	3.42 ± 0.16	60 (10)	3.76 ± 0.14	70 (10)
	4 - 7	6.09 ± 0.20 **	36 (9)	5.75 ± 0.20	36 (10)	6.02 ± 0.18	40 (10)	6.06 ± 0.22	41 (10)
	7 - 12	13.10 ± 0.45 *	36 (9)	12.38 ± 0.39	36 (10)	13.23 ± 0.38	40 (10)	13.01 ± 0.29	41 (10)
	12 - 14	4.89 ± 0.21	36 (9)	5.28 ± 0.26	36 (10)	5.23 ± 0.16	40 (10)	5.17 ± 0.19	41 (10)
	14 - 21	24.75 ± 0.58 **	36 (9)	23.89 ± 0.73	36 (10)	24.33 ± 0.62	40 (10)	25.23 ± 0.55	41 (10)
	21 - 28	40.70 ± 1.05	36 (9)	39.23 ± 0.62	36 (10)	39.30 ± 0.51	40 (10)	38.89 ± 0.76	41 (10)
	12 - 28	70.34 ± 1.53 **	36 (9)	68.41 ± 1.30	36 (10)	68.86 ± 0.82	40 (10)	69.29 ± 1.25	41 (10)
	1 - 28	93.22 ± 1.67 **	36 (9)	90.03 ± 1.69	36 (10)	91.51 ± 1.32	40 (10)	91.99 ± 1.80	41 (10)

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F1 Males

Phase	Days	Treatment Groups (mg/kg/day)			
		1		3	
		WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.40 ± 0.11	65 (13)	3.09 ± 0.15	46 (9)
	4 - 7	5.62 ± 0.29	32 (10)	5.01 ± 0.22 **	32 (9)
	7 - 12	12.10 ± 0.65	32 (10)	12.07 ± 0.81	32 (9)
	12 - 14	4.63 ± 0.31	32 (10)	5.07 ± 0.31	32 (9)
	14 - 21	24.79 ± 0.39	32 (10)	18.62 ± 2.19 **	32 (9)
	21 - 28	39.75 ± 0.98	30 (9)	39.04 ± 0.98	32 (9)
	12 - 28	69.07 ± 1.28	30 (9)	62.73 ± 3.08 *	32 (9)
	1 - 28	89.86 ± 1.84	30 (9)	83.17 ± 3.40 **	32 (9)

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F1 Females

Treatment Groups (mg/kg/day)

Phase	Days	0		0.03		0.1		0.3	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.10 ± 0.14 **	79 (12)	3.06 ± 0.11	67 (10)	3.10 ± 0.13	72 (10)	3.33 ± 0.16	60 (9)
	4 - 7	5.61 ± 0.27 **	36 (9)	5.21 ± 0.17	44 (10)	5.15 ± 0.24	40 (10)	5.44 ± 0.25	36 (9)
	7 - 12	12.60 ± 0.43 **	36 (9)	11.90 ± 0.43	44 (10)	12.30 ± 0.40	40 (10)	12.54 ± 0.25	36 (9)
	12 - 14	4.95 ± 0.16 *	36 (9)	5.00 ± 0.26	44 (10)	4.94 ± 0.16	40 (10)	4.78 ± 0.21	36 (9)
	14 - 21	22.23 ± 0.59 **	36 (9)	22.07 ± 0.58	44 (10)	21.44 ± 0.66	40 (10)	22.66 ± 0.69	36 (9)
	21 - 28	34.07 ± 0.85	36 (9)	32.49 ± 0.56	44 (10)	31.97 ± 0.77	40 (10)	32.83 ± 0.89	36 (9)
	12 - 28	61.24 ± 1.28 **	36 (9)	59.56 ± 1.05	44 (10)	58.34 ± 1.29	40 (10)	60.26 ± 1.41	36 (9)
	1 - 28	82.82 ± 1.73 **	36 (9)	79.87 ± 1.46	44 (10)	78.82 ± 1.90	40 (10)	81.39 ± 1.94	36 (9)

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F1 Females

Phase	Days	Treatment Groups (mg/kg/day)			
		1		3	
		WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.13 ± 0.10	90 (13)	2.47 ± 0.19 **	59 (10)
	4 - 7	5.35 ± 0.20	43 (10)	4.28 ± 0.15 **	44 (10)
	7 - 12	11.79 ± 0.71	43 (10)	10.63 ± 0.35 **	44 (10)
	12 - 14	4.58 ± 0.34	43 (10)	4.40 ± 0.27	44 (10)
	14 - 21	23.18 ± 0.26	43 (10)	15.93 ± 1.55 **	44 (10)
	21 - 28	33.62 ± 0.90	37 (9)	32.67 ± 0.81	44 (10)
	12 - 28	61.43 ± 1.13	37 (9)	53.01 ± 2.28 **	44 (10)
	1 - 28	81.66 ± 1.74	37 (9)	70.94 ± 2.66 **	44 (10)

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F1 Pups

Treatment Groups (mg/kg/day)

Phase	Days	0		0.03		0.1		0.3	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.21 ± 0.12 **	152 (12)	3.18 ± 0.11	125 (10)	3.24 ± 0.13	132 (10)	3.59 ± 0.14	130 (10)
	4 - 7	5.85 ± 0.23 **	72 (9)	5.44 ± 0.19	80 (10)	5.59 ± 0.18	80 (10)	5.83 ± 0.24	77 (10)
	7 - 12	12.85 ± 0.41 **	72 (9)	12.11 ± 0.41	80 (10)	12.77 ± 0.38	80 (10)	12.77 ± 0.22	77 (10)
	12 - 14	4.92 ± 0.16	72 (9)	5.13 ± 0.25	80 (10)	5.08 ± 0.13	80 (10)	5.04 ± 0.20	77 (10)
	14 - 21	23.50 ± 0.57 **	72 (9)	22.85 ± 0.66	80 (10)	22.90 ± 0.61	80 (10)	24.14 ± 0.61	77 (10)
	21 - 28	37.42 ± 0.90	72 (9)	35.52 ± 0.56	80 (10)	35.66 ± 0.56	80 (10)	36.15 ± 0.80	77 (10)
	12 - 28	65.84 ± 1.36 **	72 (9)	63.50 ± 1.19	80 (10)	63.65 ± 0.98	80 (10)	65.34 ± 1.38	77 (10)
	1 - 28	88.07 ± 1.63 **	72 (9)	84.40 ± 1.60	80 (10)	85.22 ± 1.53	80 (10)	87.39 ± 1.91	77 (10)

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Phase	Days	Treatment Groups (mg/kg/day)			
		1		3	
		WT Gain (g)	N	WT Gain (g)	N
PND	1 - 4	3.23 ± 0.09	155 (13)	2.68 ± 0.17 *	105 (10)
	4 - 7	5.44 ± 0.22	75 (10)	4.54 ± 0.19 **	76 (10)
	7 - 12	12.02 ± 0.57	75 (10)	11.19 ± 0.52 *	76 (10)
	12 - 14	4.64 ± 0.30	75 (10)	4.66 ± 0.28	76 (10)
	14 - 21	23.76 ± 0.26	75 (10)	16.98 ± 1.74 **	76 (10)
	21 - 28	36.32 ± 0.81	67 (9)	35.42 ± 0.81	76 (10)
	12 - 28	64.75 ± 1.04	67 (9)	57.06 ± 2.51 **	76 (10)
	1 - 28	85.31 ± 1.61	67 (9)	75.90 ± 2.89 **	76 (10)

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LEGEND

N = the number of pups (number of litters)

PND4 weights are precull if litters are culled on postnatal day 4.

Data are displayed as the means and standard errors of the litter means.

PND - Postnatal Day, pups pre-weaning

Pup weights are adjusted for covariate litter size for all postnatal days. Total live on PND 1 for day 1 to cull day, and number of live pups after culling for later weight days.

Unadjusted pup weights may also be reported for select postnatal days.

Statistical analysis was performed using mixed effects models with litter as a random effect, and a Dunnett-Hsu adjustment for multiple pairwise comparisons.

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 $P \leq 0.01$

Three dams and their litters were removed for biological sampling on PND4 from each of the control and 1 mg/kg groups.

One litter in the 3 mg/kg/day group had female pups only.

**** END OF REPORT ****