

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

R19: Pup Mean Body Weight Summary
Test Compound: Deoxynivalenol
CAS Number: 51481-10-8

Date Report Requested: 10/05/2020
Time Report Requested: 09:39:18
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 Day	0		0.03			0.1			0.3		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.20 ± 0.12	73 (12)	7.19 ± 0.17	99.83	58 (10)	7.23 ± 0.11	100.35	61 (10)	7.44 ± 0.11	103.26	70 (10)
PND4	10.56 ± 0.22	73 (12)	10.51 ± 0.24	99.48	58 (10)	10.65 ± 0.25	100.85	60 (10)	11.20 ± 0.22	106.05	70 (10)
PND7	17.20 ± 0.27 *	36 (9)	16.47 ± 0.44	95.72	36 (10)	16.67 ± 0.37	96.90	40 (10)	17.06 ± 0.58	99.17	41 (10)
PND12	30.30 ± 0.50 **	36 (9)	28.84 ± 0.70	95.20	36 (10)	29.89 ± 0.65	98.66	40 (10)	30.07 ± 0.76	99.24	41 (10)
PND13	32.83 ± 0.56 *	36 (9)	31.51 ± 0.86	95.99	36 (10)	32.78 ± 0.66	99.85	40 (10)	32.91 ± 0.77	100.26	41 (10)
PND14	35.19 ± 0.56 **	36 (9)	34.13 ± 0.88	96.97	36 (10)	35.12 ± 0.66	99.80	40 (10)	35.24 ± 0.83	100.14	41 (10)
PND15	37.29 ± 0.61 **	36 (9)	36.53 ± 0.88	97.96	36 (10)	37.69 ± 0.75	101.07	40 (10)	37.95 ± 0.88	101.76	40 (10)
PND16	39.40 ± 0.55 **	36 (9)	38.50 ± 0.94	97.72	36 (10)	39.59 ± 0.82	100.49	40 (10)	39.84 ± 0.79	101.13	41 (10)
PND17	41.64 ± 0.58 **	36 (9)	40.65 ± 1.00	97.63	36 (10)	41.46 ± 0.93	99.57	40 (10)	41.99 ± 0.99	100.85	41 (10)
PND18	45.06 ± 0.61 **	36 (9)	43.83 ± 1.20	97.28	36 (10)	44.55 ± 1.10	98.87	40 (10)	45.26 ± 1.06	100.46	41 (10)
PND19	50.07 ± 0.76 **	36 (9)	48.28 ± 1.39	96.42	36 (10)	49.20 ± 1.29	98.25	40 (10)	50.14 ± 1.25	100.13	41 (10)
PND20	55.19 ± 0.96 **	36 (9)	53.33 ± 1.57	96.61	36 (10)	54.61 ± 1.18	98.93	40 (10)	55.40 ± 1.18	100.36	41 (10)
PND21	59.95 ± 0.82 **	36 (9)	58.02 ± 1.54	96.79	36 (10)	59.45 ± 1.25	99.18	40 (10)	60.48 ± 1.25	100.88	41 (10)
PND22	65.17 ± 0.93 **	36 (9)	63.08 ± 1.60	96.79	36 (10)	64.26 ± 1.08	98.60	40 (10)	64.85 ± 1.29	99.50	41 (10)
PND23	70.58 ± 1.09 **	36 (9)	68.22 ± 1.64	96.66	36 (10)	70.07 ± 1.22	99.28	40 (10)	69.92 ± 1.42	99.06	41 (10)
PND24	76.05 ± 1.04 **	36 (9)	73.74 ± 1.60	96.97	36 (10)	75.64 ± 1.26	99.46	40 (10)	75.37 ± 1.49	99.10	41 (10)
PND25	81.73 ± 1.38 **	36 (9)	79.61 ± 1.85	97.40	36 (10)	81.57 ± 1.37	99.80	40 (10)	81.32 ± 1.50	99.50	41 (10)
PND26	88.03 ± 1.35 **	36 (9)	85.51 ± 1.93	97.13	36 (10)	87.45 ± 1.37	99.34	40 (10)	87.62 ± 1.62	99.53	41 (10)
PND27	94.00 ± 1.29 **	36 (9)	91.24 ± 1.75	97.06	36 (10)	93.23 ± 1.31	99.18	40 (10)	93.48 ± 1.69	99.45	41 (10)
PND28	100.65 ± 1.73 **	36 (9)	97.26 ± 1.85	96.63	36 (10)	98.76 ± 1.39	98.12	40 (10)	99.35 ± 1.90	98.71	41 (10)

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F1 Males

Phase Day	Treatment Groups (mg/kg/day)					
	1			3		
	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.23 ± 0.09	100.33	65 (13)	7.00 ± 0.25	97.22	47 (9)
PND4	10.63 ± 0.16	100.65	65 (13)	10.12 ± 0.34	95.82	46 (9)
PND7	16.52 ± 0.44	96.05	32 (10)	15.56 ± 0.54	90.48	32 (9)
PND12	28.63 ± 0.84	94.48	32 (10)	27.63 ± 0.81 *	91.20	32 (9)
PND13	31.05 ± 0.99	94.58	32 (10)	30.50 ± 0.84	92.90	32 (9)
PND14	33.25 ± 1.03	94.48	32 (10)	32.70 ± 0.88	92.92	32 (9)
PND15	36.04 ± 1.03	96.64	32 (10)	34.08 ± 1.00 *	91.39	32 (9)
PND16	37.81 ± 0.99	95.98	32 (10)	35.36 ± 1.11 **	89.75	32 (9)
PND17	40.11 ± 1.11	96.33	32 (10)	36.55 ± 1.33 **	87.77	32 (9)
PND18	43.44 ± 1.16	96.41	32 (10)	38.39 ± 1.71 **	85.21	32 (9)
PND19	48.00 ± 1.42	95.86	32 (10)	41.47 ± 2.07 **	82.81	32 (9)
PND20	53.25 ± 1.29	96.48	32 (10)	46.28 ± 2.40 **	83.84	32 (9)
PND21	58.04 ± 1.28	96.82	32 (10)	51.32 ± 2.72 **	85.62	32 (9)
PND22	62.89 ± 1.32	96.49	32 (10)	56.08 ± 2.94 **	86.05	32 (9)
PND23	67.99 ± 1.38	96.34	32 (10)	61.42 ± 3.01 **	87.03	32 (9)
PND24	73.67 ± 1.37	96.87	32 (10)	66.76 ± 3.22 **	87.79	32 (9)
PND25	79.18 ± 1.56	96.88	30 (9)	72.42 ± 3.24 **	88.61	32 (9)
PND26	85.03 ± 1.67	96.59	30 (9)	77.96 ± 3.33 **	88.56	32 (9)
PND27	90.77 ± 1.69	96.57	30 (9)	84.21 ± 3.41 **	89.59	32 (9)
PND28	97.16 ± 1.82	96.54	30 (9)	90.35 ± 3.56 **	89.76	32 (9)

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F1 Females

Treatment Groups (mg/kg/day)

Phase Day	0		0.03			0.1			0.3		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.62 ± 0.11	80 (12)	6.74 ± 0.17	101.85	67 (10)	6.64 ± 0.12	100.34	73 (10)	6.90 ± 0.15	104.27	60 (9)
PND4	9.75 ± 0.22 **	79 (12)	9.79 ± 0.26	100.49	67 (10)	9.74 ± 0.22	99.95	72 (10)	10.23 ± 0.27	104.99	60 (9)
PND7	15.79 ± 0.36 *	36 (9)	15.17 ± 0.39	96.12	44 (10)	14.73 ± 0.52	93.28	40 (10)	15.37 ± 0.71	97.40	36 (9)
PND12	28.38 ± 0.67 **	36 (9)	27.07 ± 0.71	95.37	44 (10)	27.03 ± 0.85	95.23	40 (10)	27.91 ± 0.88	98.36	36 (9)
PND13	30.88 ± 0.72 **	36 (9)	29.63 ± 0.87	95.95	44 (10)	29.66 ± 0.82	96.04	40 (10)	30.56 ± 0.83	98.97	36 (9)
PND14	33.33 ± 0.69 **	36 (9)	32.07 ± 0.88	96.22	44 (10)	31.96 ± 0.83	95.90	40 (10)	32.69 ± 0.78	98.09	36 (9)
PND15	35.65 ± 0.59 **	36 (9)	34.42 ± 0.82	96.55	44 (10)	34.25 ± 0.85	96.09	40 (10)	35.25 ± 0.85	98.87	36 (9)
PND16	37.36 ± 0.80 **	36 (9)	36.35 ± 0.89	97.28	44 (10)	36.10 ± 0.93	96.62	40 (10)	37.15 ± 0.71	99.41	36 (9)
PND17	39.41 ± 0.84 **	36 (9)	38.49 ± 1.00	97.65	44 (10)	37.85 ± 1.06	96.02	40 (10)	39.29 ± 0.99	99.68	36 (9)
PND18	42.56 ± 0.83 **	36 (9)	41.28 ± 1.21	96.99	44 (10)	40.57 ± 1.19	95.32	40 (10)	42.25 ± 1.21	99.26	36 (9)
PND19	46.81 ± 0.94 **	36 (9)	45.37 ± 1.34	96.92	44 (10)	44.43 ± 1.37	94.91	40 (10)	46.42 ± 1.32	99.16	36 (9)
PND20	51.90 ± 0.97 **	36 (9)	49.73 ± 1.46	95.83	44 (10)	49.36 ± 1.31	95.10	40 (10)	50.82 ± 1.46	97.92	36 (9)
PND21	55.56 ± 1.10 **	36 (9)	54.14 ± 1.41	97.45	44 (10)	53.40 ± 1.39	96.13	40 (10)	55.35 ± 1.42	99.64	36 (9)
PND22	60.40 ± 1.27 **	36 (9)	58.46 ± 1.49	96.79	44 (10)	57.74 ± 1.42	95.58	40 (10)	59.45 ± 1.59	98.43	36 (9)
PND23	64.90 ± 1.34 **	36 (9)	62.81 ± 1.49	96.78	44 (10)	62.56 ± 1.58	96.38	40 (10)	63.73 ± 1.62	98.19	36 (9)
PND24	69.66 ± 1.39 **	36 (9)	67.67 ± 1.53	97.15	44 (10)	67.11 ± 1.67	96.35	40 (10)	68.18 ± 1.70	97.88	36 (9)
PND25	74.91 ± 1.33 **	36 (9)	72.58 ± 1.63	96.89	44 (10)	72.29 ± 1.73	96.51	40 (10)	73.33 ± 1.76	97.89	36 (9)
PND26	79.57 ± 1.55 **	36 (9)	77.27 ± 1.62	97.12	44 (10)	76.87 ± 1.81	96.61	40 (10)	78.21 ± 1.78	98.29	36 (9)
PND27	84.21 ± 1.52 **	36 (9)	81.71 ± 1.48	97.04	44 (10)	81.68 ± 1.86	97.00	40 (10)	83.21 ± 1.79	98.82	36 (9)
PND28	89.63 ± 1.81 **	36 (9)	86.63 ± 1.61	96.66	44 (10)	85.37 ± 2.02	95.25	40 (10)	88.18 ± 2.10	98.39	36 (9)

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F1 Females

Phase Day	Treatment Groups (mg/kg/day)					
	1			3		
	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.91 ± 0.11	104.38	90 (13)	6.33 ± 0.22	95.75	59 (10)
PND4	10.04 ± 0.18	103.00	90 (13)	8.81 ± 0.38 *	90.38	59 (10)
PND7	15.86 ± 0.45	100.46	43 (10)	13.87 ± 0.41 *	87.87	44 (10)
PND12	27.65 ± 0.64	97.43	43 (10)	24.50 ± 0.62 **	86.33	44 (10)
PND13	30.01 ± 0.78	97.19	43 (10)	26.96 ± 0.64 **	87.32	44 (10)
PND14	32.23 ± 0.85	96.70	43 (10)	28.90 ± 0.65 **	86.70	44 (10)
PND15	34.34 ± 0.95	96.34	43 (10)	30.56 ± 0.77 **	85.72	44 (10)
PND16	36.25 ± 0.98	97.02	43 (10)	31.60 ± 0.91 **	84.58	44 (10)
PND17	38.42 ± 0.95	97.49	43 (10)	32.69 ± 1.02 **	82.95	44 (10)
PND18	41.45 ± 0.99	97.39	43 (10)	34.25 ± 1.29 **	80.49	44 (10)
PND19	45.93 ± 1.13	98.10	43 (10)	36.32 ± 1.47 **	77.58	44 (10)
PND20	50.90 ± 0.96	98.07	43 (10)	40.59 ± 1.83 **	78.22	44 (10)
PND21	55.41 ± 0.89	99.75	43 (10)	44.83 ± 2.04 **	80.70	44 (10)
PND22	59.72 ± 1.03	98.87	43 (10)	48.87 ± 2.14 **	80.91	44 (10)
PND23	64.41 ± 1.10	99.24	43 (10)	53.29 ± 2.22 **	82.10	44 (10)
PND24	69.39 ± 1.20	99.61	43 (10)	57.97 ± 2.41 **	83.23	44 (10)
PND25	74.47 ± 1.24	99.41	37 (9)	62.52 ± 2.48 **	83.46	44 (10)
PND26	79.42 ± 1.27	99.82	37 (9)	67.17 ± 2.51 **	84.42	44 (10)
PND27	84.23 ± 1.27	100.03	37 (9)	71.97 ± 2.60 **	85.47	44 (10)
PND28	88.83 ± 1.64	99.11	37 (9)	77.50 ± 2.77 **	86.47	44 (10)

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F1 Pups

Treatment Groups (mg/kg/day)

Phase Day	0		0.03			0.1			0.3		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	6.91 ± 0.11	153 (12)	6.95 ± 0.18	100.54	125 (10)	6.90 ± 0.11	99.86	134 (10)	7.20 ± 0.11	104.27	130 (10)
PND4	10.13 ± 0.21 **	152 (12)	10.13 ± 0.27	99.97	125 (10)	10.13 ± 0.22	100.02	132 (10)	10.79 ± 0.22	106.50	130 (10)
PND7	16.50 ± 0.29 **	72 (9)	15.74 ± 0.40	95.43	80 (10)	15.70 ± 0.41	95.17	80 (10)	16.42 ± 0.65	99.55	77 (10)
PND12	29.35 ± 0.54 **	72 (9)	27.86 ± 0.70	94.92	80 (10)	28.47 ± 0.72	97.00	80 (10)	29.19 ± 0.79	99.47	77 (10)
PND13	31.86 ± 0.60 **	72 (9)	30.46 ± 0.86	95.60	80 (10)	31.23 ± 0.71	98.00	80 (10)	31.96 ± 0.79	100.31	77 (10)
PND14	34.27 ± 0.59 **	72 (9)	32.98 ± 0.87	96.24	80 (10)	33.55 ± 0.71	97.90	80 (10)	34.23 ± 0.82	99.88	77 (10)
PND15	36.49 ± 0.57 **	72 (9)	35.36 ± 0.85	96.92	80 (10)	35.99 ± 0.76	98.63	80 (10)	36.80 ± 0.83	100.87	76 (10)
PND16	38.39 ± 0.65 **	72 (9)	37.30 ± 0.91	97.15	80 (10)	37.86 ± 0.83	98.61	80 (10)	38.68 ± 0.71	100.74	77 (10)
PND17	40.54 ± 0.68 **	72 (9)	39.44 ± 1.00	97.29	80 (10)	39.67 ± 0.96	97.85	80 (10)	40.84 ± 0.95	100.74	77 (10)
PND18	43.83 ± 0.68 **	72 (9)	42.40 ± 1.22	96.74	80 (10)	42.58 ± 1.10	97.15	80 (10)	43.98 ± 1.08	100.35	77 (10)
PND19	48.46 ± 0.80 **	72 (9)	46.64 ± 1.38	96.23	80 (10)	46.83 ± 1.28	96.64	80 (10)	48.61 ± 1.27	100.31	77 (10)
PND20	53.57 ± 0.92 **	72 (9)	51.30 ± 1.53	95.76	80 (10)	52.00 ± 1.18	97.08	80 (10)	53.48 ± 1.30	99.84	77 (10)
PND21	57.77 ± 0.93 **	72 (9)	55.83 ± 1.48	96.64	80 (10)	56.45 ± 1.26	97.71	80 (10)	58.37 ± 1.36	101.04	77 (10)
PND22	62.82 ± 1.06 **	72 (9)	60.48 ± 1.56	96.28	80 (10)	61.03 ± 1.18	97.15	80 (10)	62.55 ± 1.41	99.58	77 (10)
PND23	67.77 ± 1.16 **	72 (9)	65.20 ± 1.58	96.21	80 (10)	66.34 ± 1.31	97.89	80 (10)	67.32 ± 1.53	99.34	77 (10)
PND24	72.88 ± 1.14 **	72 (9)	70.34 ± 1.60	96.51	80 (10)	71.41 ± 1.39	97.98	80 (10)	72.31 ± 1.62	99.21	77 (10)
PND25	78.35 ± 1.28 **	72 (9)	75.71 ± 1.77	96.62	80 (10)	76.97 ± 1.46	98.23	80 (10)	77.92 ± 1.66	99.44	77 (10)
PND26	83.84 ± 1.39 **	72 (9)	80.91 ± 1.79	96.50	80 (10)	82.20 ± 1.51	98.04	80 (10)	83.64 ± 1.81	99.76	77 (10)
PND27	89.15 ± 1.33 **	72 (9)	85.95 ± 1.64	96.41	80 (10)	87.50 ± 1.50	98.15	80 (10)	89.11 ± 1.85	99.96	77 (10)
PND28	95.19 ± 1.70 **	72 (9)	91.36 ± 1.76	95.97	80 (10)	92.12 ± 1.62	96.77	80 (10)	94.52 ± 2.04	99.29	77 (10)

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F1 Pups

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	1			3		
	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.02 ± 0.10	101.66	155 (13)	6.60 ± 0.24	95.50	106 (10)
PND4	10.25 ± 0.16	101.20	155 (13)	9.29 ± 0.39	91.70	105 (10)
PND7	16.03 ± 0.34	97.17	75 (10)	14.45 ± 0.54 *	87.58	76 (10)
PND12	28.05 ± 0.62	95.59	75 (10)	25.64 ± 0.68 **	87.37	76 (10)
PND13	30.46 ± 0.77	95.60	75 (10)	28.25 ± 0.71 **	88.66	76 (10)
PND14	32.69 ± 0.84	95.39	75 (10)	30.30 ± 0.73 **	88.40	76 (10)
PND15	35.11 ± 0.86	96.22	75 (10)	31.96 ± 0.85 **	87.60	76 (10)
PND16	36.95 ± 0.87	96.25	75 (10)	33.12 ± 0.98 **	86.27	76 (10)
PND17	39.13 ± 0.92	96.52	75 (10)	34.22 ± 1.12 **	84.41	76 (10)
PND18	42.28 ± 0.98	96.48	75 (10)	35.91 ± 1.40 **	81.95	76 (10)
PND19	46.79 ± 1.13	96.54	75 (10)	38.38 ± 1.65 **	79.21	76 (10)
PND20	51.84 ± 0.95	96.78	75 (10)	42.75 ± 2.00 **	79.81	76 (10)
PND21	56.45 ± 0.97	97.71	75 (10)	47.28 ± 2.26 **	81.83	76 (10)
PND22	61.00 ± 1.07	97.11	75 (10)	51.67 ± 2.37 **	82.25	76 (10)
PND23	65.86 ± 1.11	97.19	75 (10)	56.43 ± 2.45 **	83.26	76 (10)
PND24	71.17 ± 1.17	97.65	75 (10)	61.42 ± 2.65 **	84.26	76 (10)
PND25	76.52 ± 1.26	97.66	67 (9)	66.40 ± 2.74 **	84.74	76 (10)
PND26	81.87 ± 1.38	97.65	67 (9)	71.43 ± 2.79 **	85.19	76 (10)
PND27	87.01 ± 1.37	97.60	67 (9)	76.78 ± 2.91 **	86.12	76 (10)
PND28	92.50 ± 1.56	97.17	67 (9)	82.68 ± 3.04 **	86.86	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 $P \leq 0.01$

One male pup from the 0.3 mg/kg dose group on PND15 was excluded as an outlier from both the male and combined sex analysis.

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 ****