

Black Cohosh Chronic Perinatal Study-Rats (C00058-03)

Table 5: Lactational Body Weights (g)

Parameter	Control	75 mg/kg	250 mg/kg	750 mg/kg	Trend^a
Body Weights(g)^{b,c,d,e}					
LD 1	279.6 ± 2.5 [31]	274.0 ± 2.3 [32]	271.8 ± 2.6 [32]*	266.9 ± 2.4 [35]**	0.001-
LD 2	282.3 ± 2.1 [31]	274.8 ± 2.4 [32]*	273.6 ± 2.5 [32]**	267.9 ± 2.0 [35]**	<0.001-
LD 3	286.0 ± 2.0 [31]	277.8 ± 2.5 [32]*	278.8 ± 2.5 [32]*	271.2 ± 2.0 [35]**	<0.001-
LD 4	293.4 ± 2.1 [31]	285.5 ± 2.6 [32]*	285.2 ± 2.7 [32]*	277.5 ± 2.2 [35]**	<0.001-
LD 5	299.6 ± 2.6 [30]	292.6 ± 2.6 [30]	289.5 ± 2.9 [31]*	279.8 ± 3.0 [30]**	<0.001-
LD 6	297.7 ± 3.1 [30]	289.9 ± 2.1 [30]*	289.6 ± 2.7 [30]*	282.6 ± 2.8 [30]**	<0.001-
LD 7	301.9 ± 2.5 [30]	293.4 ± 2.3 [30]*	291.9 ± 3.1 [30]**	285.8 ± 2.1 [30]**	<0.001-
LD 8	301.7 ± 2.7 [30]	295.4 ± 2.7 [30]	293.6 ± 3.5 [30]*	289.4 ± 2.1 [30]**	0.001-
LD 9	305.0 ± 2.8 [30]	296.5 ± 2.4 [30]	299.1 ± 3.1 [29]	295.3 ± 2.1 [30]*	0.016-
LD 10	310.6 ± 2.5 [30]	304.0 ± 2.2 [30]	301.7 ± 2.7 [29]*	298.5 ± 2.3 [30]**	0.001-
LD 11	316.6 ± 2.6 [30]	308.3 ± 2.6 [30]*	305.8 ± 2.8 [29]**	300.2 ± 2.2 [30]**	<0.001-
LD 12	318.1 ± 2.5 [30]	307.5 ± 3.0 [30]*	308.5 ± 2.9 [29]*	301.0 ± 2.9 [30]**	<0.001-
LD 13	317.1 ± 2.2 [30]	308.5 ± 3.1 [30]	311.3 ± 3.0 [29]	305.5 ± 2.5 [30]**	0.017-
LD 14	321.9 ± 2.5 [30]	312.7 ± 2.7 [30]*	313.1 ± 2.9 [29]*	308.6 ± 2.6 [30]**	0.002-
LD 15	321.2 ± 2.2 [30]	315.1 ± 2.6 [30]	317.0 ± 3.3 [29]	305.9 ± 2.7 [30]**	0.001-
LD 16	313.6 ± 2.2 [30]	305.5 ± 2.5 [30]*	306.7 ± 3.0 [29]*	301.2 ± 2.1 [30]**	0.001-
LD 17	314.0 ± 2.5 [30]	305.1 ± 2.5 [30]*	306.9 ± 3.0 [29]	303.3 ± 2.5 [30]*	0.015-
LD 18	312.2 ± 2.1 [30]	305.9 ± 2.9 [30]	308.6 ± 3.1 [29]	302.5 ± 2.3 [30]*	0.052-
LD 19	305.4 ± 2.9 [30]	299.7 ± 2.6 [30]	302.5 ± 2.8 [29]	293.0 ± 2.7 [30]**	0.001-
LD 20	308.9 ± 2.0 [30]	299.6 ± 3.0 [30]*	301.2 ± 2.9 [29]*	290.5 ± 2.6 [30]**	<0.001-
LD 21	305.8 ± 2.8 [30]	299.6 ± 3.0 [30]	299.7 ± 2.5 [29]	288.4 ± 2.7 [30]**	<0.001-
LD 22	300.5 ± 2.3 [30]	291.2 ± 3.0 [30]	296.1 ± 2.7 [29]	286.3 ± 2.8 [30]**	0.004-
LD 23	299.3 ± 2.2 [30]	294.2 ± 3.1 [30]	294.9 ± 2.4 [29]	292.2 ± 2.1 [30]	0.048-
LD 24	298.7 ± 1.9 [30]	297.4 ± 3.2 [30]	297.3 ± 2.3 [29]	292.9 ± 2.3 [30]	0.140-
LD 25	295.1 ± 2.0 [30]	289.8 ± 2.8 [30]	292.5 ± 2.6 [29]	285.2 ± 3.2 [30]*	0.086-
LD 26	292.3 ± 2.2 [30]	287.0 ± 3.0 [30]	285.5 ± 2.2 [29]	282.3 ± 2.9 [30]**	0.009-
LD 27	291.5 ± 2.5 [30]	285.1 ± 2.9 [30]	287.3 ± 2.4 [29]	286.3 ± 2.3 [30]	0.346-
LD 28	289.5 ± 2.5 [30]	284.3 ± 3.2 [30]	286.1 ± 2.8 [29]	285.5 ± 2.2 [29]	0.479-

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Parameter	Control	75 mg/kg	250 mg/kg	750 mg/kg	Trend^a
Body Weight Change(g)^{b,c,d,e}					
LD 1-4	13.7 ± 1.9 [31]	11.5 ± 1.3 [32]	13.3 ± 1.7 [32]	10.7 ± 1.4 [35]	0.326-
LD 4-7	8.0 ± 1.9 [30]	6.2 ± 1.6 [30]	7.2 ± 2.8 [30]	9.6 ± 1.3 [30]	0.418+
LD 7-10	8.7 ± 1.9 [30]	10.6 ± 1.7 [30]	8.9 ± 1.8 [29]	12.7 ± 1.2 [30]	0.061+
LD 10-14	11.3 ± 1.8 [30]	8.6 ± 2.3 [30]	11.5 ± 1.1 [29]	10.1 ± 1.7 [30]	0.834-
LD 14-18	-9.7 ± 1.7 [30]	-6.7 ± 1.8 [30]	-4.6 ± 1.2 [29]	-6.1 ± 1.7 [30]	0.093+
LD 18-21	-6.3 ± 2.0 [30]	-6.3 ± 1.9 [30]	-8.8 ± 2.2 [29]	-14.1 ± 1.8 [30]**	0.002-
LD 21-25	-10.7 ± 2.2 [30]	-9.9 ± 1.3 [30]	-7.2 ± 1.8 [29]	-3.3 ± 3.5 [30]*	0.001+
LD 25-28	-5.5 ± 1.4 [30]	-5.4 ± 1.3 [30]	-6.4 ± 0.9 [29]	0.4 ± 2.8 [29]*	0.225+
LD 1-28	9.9 ± 2.5 [30]	8.9 ± 2.9 [30]	14.9 ± 2.1 [29]	20.9 ± 2.2 [29]**	0.001+

a: P-value and direction of trend

b: Each dose was compared to the control with Williams' test when a trend was present (P<.01 from Jonckheere's trend test) or with Dunnett's test when no trend was present [* = P<0.05, ** = P<0.01]

c: Mean ± standard error [number of dams]

d: LD=Lactational Day

e: Changes in n are the result of standardization on lactation day (LD) 4 and removing litters with no surviving pups by LD 8 (one litter in the 250 mg/kg/day group) and LD 28 (one litter in the 750 mg/kg/day group).