

Study Number: MOG003B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA06R: Organ Weights Summary
Test Compound: 2-Ethylhexyl p-Methoxycinnamate
CAS Number: 5466-77-3

Date Report Requested: 01/14/2020
Time Report Requested: 14:25:50
Lab: RTI

C Number:

MOG003B

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

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F1 Males: Subchronic Male

	Treatment Groups (ppm)			
	0	1000	3000	6000
Terminal Body Wt. (g)	423.4 ± 9.8 (10)	427.3 ± 8.7 (10)	421.3 ± 7.8 (10)	410.0 ± 8.8 (10)
Thymus				
Absolute (g)	0.466 ± 0.042 (10)	0.425 ± 0.015 (10)	0.486 ± 0.028 (10)	0.399 ± 0.029 (10)
Relative (mg/g)	1.09 ± 0.08 (10)	1.00 ± 0.04 (10)	1.15 ± 0.05 (10)	0.97 ± 0.07 (10)
Heart				
Absolute (g)	1.59 ± 0.04 (10)	1.58 ± 0.06 (10)	1.61 ± 0.04 (10)	1.58 ± 0.05 (10)
Relative (mg/g)	3.76 ± 0.09 (10)	3.70 ± 0.07 (10)	3.82 ± 0.08 (10)	3.85 ± 0.06 (10)
Lung				
Absolute (g)	2.08 ± 0.05 (10)	2.00 ± 0.08 (10)	2.15 ± 0.10 (10)	2.01 ± 0.07 (10)
Relative (mg/g)	4.92 ± 0.15 (10)	4.68 ± 0.12 (10)	5.10 ± 0.21 (10)	4.93 ± 0.20 (10)
Liver				
Absolute (g)	16.24 ± 0.71 (10)	16.79 ± 0.49 (10)	17.27 ± 0.47 (10)	16.87 ± 0.60 (10)
Relative (mg/g)	38.26 ± 1.05 (10) *	39.32 ± 0.92 (10)	40.98 ± 0.69 (10)	41.10 ± 0.94 (10)
R. Kidney				
Absolute (g)	1.51 ± 0.03 (10)	1.50 ± 0.05 (10)	1.54 ± 0.05 (10)	1.49 ± 0.05 (10)
Relative (mg/g)	3.57 ± 0.07 (10)	3.50 ± 0.05 (10)	3.66 ± 0.09 (10)	3.64 ± 0.07 (10)
L. Kidney				
Absolute (g)	1.48 ± 0.04 (10)	1.47 ± 0.06 (10)	1.58 ± 0.06 (10)	1.49 ± 0.03 (10)
Relative (mg/g)	3.50 ± 0.08 (10)	3.43 ± 0.07 (10)	3.74 ± 0.12 (10)	3.64 ± 0.05 (10)
R. Testis				
Absolute (g)	2.001 ± 0.028 (10)	1.965 ± 0.051 (10)	1.942 ± 0.054 (10)	2.049 ± 0.042 (10)
Relative (mg/g)	4.75 ± 0.13 (10)	4.60 ± 0.07 (10)	4.63 ± 0.16 (10)	5.02 ± 0.14 (10)
L. Testis				
Absolute (g)	1.978 ± 0.033 (10)	1.886 ± 0.053 (10)	1.935 ± 0.062 (10)	2.030 ± 0.038 (10)
Relative (mg/g)	4.69 ± 0.13 (10)	4.43 ± 0.15 (10)	4.61 ± 0.16 (10)	4.96 ± 0.10 (10)
R. Epididymis				
Absolute (g)	0.663 ± 0.013 (10)	0.673 ± 0.016 (10)	0.650 ± 0.012 (10)	0.683 ± 0.011 (10)
Relative (mg/g)	1.57 ± 0.02 (10)	1.58 ± 0.03 (10)	1.55 ± 0.05 (10)	1.67 ± 0.04 (10)

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F1 Males: Subchronic Male

	Treatment Groups (ppm)			
	0	1000	3000	6000
L. Epididymis				
Absolute (g)	0.663 ± 0.016 (10)	0.659 ± 0.025 (10)	0.661 ± 0.014 (10)	0.678 ± 0.009 (10)
Relative (mg/g)	1.57 ± 0.03 (10)	1.55 ± 0.07 (10)	1.57 ± 0.04 (10)	1.66 ± 0.03 (10)
Seminal vesicles with coagulating gland				
Absolute (g)	1.493 ± 0.029 (10)	1.460 ± 0.059 (10)	1.539 ± 0.042 (10)	1.525 ± 0.059 (9)
Relative (mg/g)	3.54 ± 0.11 (10)	3.43 ± 0.15 (10)	3.67 ± 0.13 (10)	3.79 ± 0.21 (9)
Dorso-lateral prostate gland				
Absolute (g)	0.486 ± 0.028 (10)	0.449 ± 0.037 (10)	0.465 ± 0.035 (10)	0.508 ± 0.021 (10)
Relative (mg/g)	1.15 ± 0.07 (10)	1.05 ± 0.08 (10)	1.11 ± 0.09 (10)	1.24 ± 0.05 (10)
Ventral prostate gland				
Absolute (g)	0.700 ± 0.036 (10) **	0.635 ± 0.039 (10)	0.620 ± 0.026 (10)	0.516 ± 0.035 (10) **
Relative (mg/g)	1.66 ± 0.08 (10) **	1.49 ± 0.09 (10)	1.48 ± 0.08 (10)	1.27 ± 0.10 (10) **

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F1 Females: Subchronic Female

	Treatment Groups (ppm)			
	0	1000	3000	6000
Terminal Body Wt. (g)	265.4 ± 9.3 (9)	264.6 ± 4.5 (10)	262.0 ± 8.3 (10)	252.0 ± 8.1 (10)
Thymus				
Absolute (g)	0.295 ± 0.010 (10)	0.322 ± 0.011 (10)	0.303 ± 0.019 (10)	0.299 ± 0.025 (9)
Relative (mg/g)	1.14 ± 0.05 (9)	1.22 ± 0.03 (10)	1.16 ± 0.07 (10)	1.18 ± 0.08 (9)
Heart				
Absolute (g)	1.08 ± 0.03 (10)	1.12 ± 0.03 (10)	1.11 ± 0.06 (10)	1.07 ± 0.04 (10)
Relative (mg/g)	4.06 ± 0.09 (9)	4.23 ± 0.07 (10)	4.23 ± 0.16 (10)	4.26 ± 0.06 (10)
Lung				
Absolute (g)	1.78 ± 0.06 (10) *	1.85 ± 0.08 (10)	1.62 ± 0.05 (10)	1.67 ± 0.11 (10)
Relative (mg/g)	6.79 ± 0.22 (9)	7.01 ± 0.29 (10)	6.21 ± 0.23 (10)	6.59 ± 0.24 (10)
Liver				
Absolute (g)	10.02 ± 0.40 (10)	9.46 ± 0.20 (10)	9.70 ± 0.54 (10)	9.94 ± 0.47 (10)
Relative (mg/g)	37.59 ± 0.80 (9)	35.77 ± 0.67 (10)	36.82 ± 0.95 (10)	39.34 ± 0.92 (10)
R. Kidney				
Absolute (g)	0.92 ± 0.02 (10)	0.90 ± 0.02 (10)	0.95 ± 0.03 (10)	0.92 ± 0.03 (10)
Relative (mg/g)	3.49 ± 0.06 (9) *	3.40 ± 0.07 (10)	3.63 ± 0.07 (10)	3.66 ± 0.06 (10)
L. Kidney				
Absolute (g)	0.92 ± 0.02 (10)	0.89 ± 0.02 (10)	0.93 ± 0.02 (10)	0.91 ± 0.02 (10)
Relative (mg/g)	3.50 ± 0.05 (9)	3.36 ± 0.07 (10)	3.55 ± 0.07 (10)	3.61 ± 0.06 (10)

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F1 Males: Prenatal Male

	Treatment Groups (ppm)											
	0			1000			3000			6000		
Terminal Body Wt. (g)	432.7	± 8.7	(21)	428.6	± 5.0	(23)	435.7	± 6.4	(19)	410.5	± 5.3	(22) *
Thyroid gland												
Absolute (g)	0.0190	± 0.0007	(21)	0.0196	± 0.0009	(23)	0.0204	± 0.0011	(19)	0.0193	± 0.0011	(22)
Relative (mg/g)	0.04	± 0.00	(21)	0.05	± 0.00	(23)	0.05	± 0.00	(19)	0.05	± 0.00	(22)
Adrenal glands												
Absolute (g)	0.0611	± 0.0014	(21)	0.0628	± 0.0015	(23)	0.0597	± 0.0019	(19)	0.0588	± 0.0016	(22)
Relative (mg/g)	0.14	± 0.00	(21)	0.15	± 0.00	(23)	0.14	± 0.00	(19)	0.14	± 0.00	(22)
R. Testis												
Absolute (g)	1.982	± 0.028	(21)	1.966	± 0.028	(23)	1.962	± 0.030	(19)	1.998	± 0.033	(21)
Relative (mg/g)	4.61	± 0.09	(21)	4.60	± 0.08	(23)	4.51	± 0.07	(19)	4.84	± 0.07	(21)
L. Testis												
Absolute (g)	2.006	± 0.025	(21)	1.955	± 0.027	(23)	1.946	± 0.034	(19)	1.974	± 0.032	(22)
Relative (mg/g)	4.66	± 0.08	(21)	4.57	± 0.08	(23)	4.48	± 0.08	(19)	4.81	± 0.06	(22)
R. Epididymis												
Absolute (g)	0.664	± 0.010	(21)	0.654	± 0.008	(23)	0.667	± 0.010	(19)	0.661	± 0.011	(22)
Relative (mg/g)	1.54	± 0.03	(21)	1.53	± 0.02	(23)	1.53	± 0.03	(19)	1.61	± 0.02	(22)
L. Epididymis												
Absolute (g)	0.666	± 0.008	(21)	0.658	± 0.010	(23)	0.664	± 0.012	(19)	0.663	± 0.011	(22)
Relative (mg/g)	1.55	± 0.03	(21)	1.54	± 0.03	(23)	1.53	± 0.03	(19)	1.62	± 0.02	(22)
Seminal vesicles with coagulating gland												
Absolute (g)	1.526	± 0.036	(20)	1.558	± 0.041	(23)	1.511	± 0.051	(19)	1.504	± 0.032	(22)
Relative (mg/g)	3.54	± 0.11	(20)	3.64	± 0.09	(23)	3.48	± 0.12	(19)	3.67	± 0.08	(22)
Dorso-lateral prostate gland												
Absolute (g)	0.443	± 0.016	(21)	0.462	± 0.018	(23)	0.500	± 0.021	(19)	0.448	± 0.018	(22)
Relative (mg/g)	1.03	± 0.04	(21)	1.08	± 0.04	(23)	1.15	± 0.05	(19)	1.09	± 0.04	(22)
Ventral prostate gland												
Absolute (g)	0.605	± 0.024	(21)	0.600	± 0.026	(23)	0.623	± 0.019	(19)	0.583	± 0.022	(22)
Relative (mg/g)	1.40	± 0.05	(21)	1.41	± 0.07	(23)	1.43	± 0.05	(19)	1.42	± 0.05	(22)

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F1 Males: Prenatal Male

Treatment Groups (ppm)

	0	1000	3000	6000
Levator ani-bulbocavernosus muscles (LABC)				
Absolute (g)	1.200 ± 0.021 (21)	1.227 ± 0.030 (23)	1.205 ± 0.027 (19)	1.127 ± 0.025 (22)
Relative (mg/g)	2.79 ± 0.06 (21)	2.86 ± 0.06 (23)	2.77 ± 0.07 (19)	2.74 ± 0.04 (22)
Cowpers glands				
Absolute (g)	0.1104 ± 0.0032 (21)	0.1127 ± 0.0040 (23)	0.1149 ± 0.0032 (19)	0.1067 ± 0.0040 (22)
Relative (mg/g)	0.26 ± 0.01 (21)	0.26 ± 0.01 (23)	0.26 ± 0.01 (19)	0.26 ± 0.01 (22)
Preputial glands				
Absolute (g)	0.1728 ± 0.0113 (21)	0.1660 ± 0.0077 (23)	0.1870 ± 0.0121 (19)	0.1646 ± 0.0098 (22)
Relative (mg/g)	0.40 ± 0.02 (21)	0.39 ± 0.02 (23)	0.43 ± 0.03 (19)	0.40 ± 0.03 (22)

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F1 Females: Prenatal Female

	Treatment Groups (ppm)											
	0			1000			3000			6000		
Terminal Body Wt. (g)	308.9	± 6.1	(19)	307.2	± 5.1	(18)	304.5	± 4.8	(12)	302.0	± 4.6	(16)
Adrenal glands												
Absolute (g)	0.0644	± 0.0017	(19)	0.0668	± 0.0019	(18)	0.0663	± 0.0019	(12)	0.0645	± 0.0017	(16)
Relative (mg/g)	0.21	± 0.01	(19)	0.22	± 0.01	(18)	0.22	± 0.01	(12)	0.21	± 0.01	(16)
R. Ovary												
Absolute (g)	0.0871	± 0.0028	(19)	0.0807	± 0.0040	(18)	0.0916	± 0.0037	(12)	0.0838	± 0.0040	(16)
Relative (mg/g)	0.28	± 0.01	(19)	0.26	± 0.01	(18)	0.30	± 0.01	(12)	0.28	± 0.01	(16)
L. Ovary												
Absolute (g)	0.0835	± 0.0027	(19)	0.0888	± 0.0042	(18)	0.0842	± 0.0031	(12)	0.0810	± 0.0037	(16)
Relative (mg/g)	0.27	± 0.01	(19)	0.29	± 0.01	(18)	0.28	± 0.01	(12)	0.27	± 0.01	(16)

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F1 Males: Fertility Males

	Treatment Groups (ppm)											
	0			1000			3000			6000		
Terminal Body Wt. (g)	483.8	± 8.8	(36 [21]) **	482.0	± 6.0	(46 [24])	463.0	± 5.6	(35 [19])	447.8	± 6.2	(37 [22]) **
Thyroid gland												
Absolute (g)	0.0205	± 0.0009	(36 [21])	0.0203	± 0.0006	(46 [24])	0.0208	± 0.0009	(35 [19])	0.0199	± 0.0008	(37 [22])
Relative (mg/g)	0.04	± 0.00	(36 [21])	0.04	± 0.00	(46 [24])	0.04	± 0.00	(35 [19])	0.04	± 0.00	(37 [22])
Adrenal glands												
Absolute (g)	0.0604	± 0.0018	(36 [21])	0.0622	± 0.0016	(46 [24])	0.0621	± 0.0019	(35 [19])	0.0607	± 0.0016	(37 [22])
Relative (mg/g)	0.13	± 0.00	(36 [21]) *	0.13	± 0.00	(46 [24])	0.13	± 0.00	(35 [19])	0.14	± 0.00	(37 [22])
R. Testis												
Absolute (g)	2.062	± 0.033	(36 [21])	2.042	± 0.033	(46 [24])	2.021	± 0.038	(35 [19])	2.081	± 0.041	(37 [22])
Relative (mg/g)	4.28	± 0.06	(36 [21]) **	4.24	± 0.05	(46 [24])	4.37	± 0.07	(35 [19])	4.65	± 0.08	(37 [22]) **
L. Testis												
Absolute (g)	2.051	± 0.028	(36 [21])	2.027	± 0.031	(46 [24])	2.001	± 0.037	(35 [19])	2.055	± 0.039	(37 [22])
Relative (mg/g)	4.26	± 0.06	(36 [21]) **	4.21	± 0.06	(46 [24])	4.33	± 0.07	(35 [19])	4.60	± 0.08	(37 [22]) **
R. Epididymis												
Absolute (g)	0.673	± 0.009	(36 [21])	0.670	± 0.010	(46 [24])	0.664	± 0.011	(35 [19])	0.673	± 0.009	(37 [22])
Relative (mg/g)	1.40	± 0.02	(36 [21]) **	1.39	± 0.01	(46 [24])	1.44	± 0.02	(35 [19])	1.51	± 0.02	(37 [22]) **
L. Epididymis												
Absolute (g)	0.678	± 0.010	(36 [21])	0.686	± 0.011	(46 [24])	0.681	± 0.012	(35 [19])	0.698	± 0.011	(37 [22])
Relative (mg/g)	1.41	± 0.02	(36 [21]) **	1.43	± 0.02	(46 [24])	1.47	± 0.02	(35 [19])	1.56	± 0.02	(37 [22]) **
Seminal vesicles with coagulating gland												
Absolute (g)	1.607	± 0.041	(35 [21]) **	1.618	± 0.037	(45 [24])	1.751	± 0.046	(35 [19]) *	1.788	± 0.043	(35 [21]) *
Relative (mg/g)	3.33	± 0.07	(35 [21]) **	3.36	± 0.08	(45 [24])	3.79	± 0.10	(35 [19]) **	4.01	± 0.10	(35 [21]) **
Dorso-lateral prostate gland												
Absolute (g)	0.465	± 0.018	(36 [21]) *	0.437	± 0.017	(46 [24])	0.532	± 0.018	(35 [19]) *	0.502	± 0.020	(37 [22])
Relative (mg/g)	0.96	± 0.04	(36 [21]) **	0.91	± 0.04	(46 [24])	1.15	± 0.04	(35 [19]) **	1.12	± 0.04	(37 [22]) **
Ventral prostate gland												
Absolute (g)	0.725	± 0.036	(36 [21])	0.725	± 0.028	(46 [24])	0.736	± 0.025	(35 [19])	0.687	± 0.021	(37 [22])
Relative (mg/g)	1.50	± 0.07	(36 [21])	1.51	± 0.06	(46 [24])	1.59	± 0.05	(35 [19])	1.53	± 0.04	(37 [22])

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F1 Males: Fertility Males

	Treatment Groups (ppm)			
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Levator ani-bulbocavernosus muscles (LABC)				
Absolute (g)	1.214 ± 0.025 (36 [21])	1.204 ± 0.025 (46 [24])	1.274 ± 0.030 (35 [19])	1.204 ± 0.020 (37 [22])
Relative (mg/g)	2.52 ± 0.05 (36 [21]) **	2.50 ± 0.05 (46 [24])	2.75 ± 0.06 (35 [19]) **	2.69 ± 0.04 (37 [22]) *
Cowpers glands				
Absolute (g)	0.1097 ± 0.0030 (36 [21])	0.1114 ± 0.0037 (44 [23])	0.1185 ± 0.0032 (35 [19])	0.1200 ± 0.0040 (37 [22])
Relative (mg/g)	0.23 ± 0.01 (36 [21]) **	0.23 ± 0.01 (44 [23])	0.26 ± 0.01 (35 [19]) *	0.27 ± 0.01 (37 [22]) **
Preputial glands				
Absolute (g)	0.1619 ± 0.0060 (36 [21])	0.1534 ± 0.0088 (45 [24])	0.1663 ± 0.0092 (35 [19])	0.1561 ± 0.0087 (37 [22])
Relative (mg/g)	0.34 ± 0.01 (36 [21])	0.32 ± 0.02 (45 [24])	0.36 ± 0.02 (35 [19])	0.35 ± 0.02 (37 [22])

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F1 Females: Fertility Females

	Treatment Groups (ppm)											
	0			1000			3000			6000		
Terminal Body Wt. (g)	320.5	± 5.7	(26 [18])	313.4	± 4.2	(31 [22])	307.7	± 5.0	(21 [16])	307.8	± 3.3	(23 [17])
Thyroid gland												
Absolute (g)	0.0177 ± 0.0008 (25 [17])			0.0178 ± 0.0006 (32 [22])			0.0184 ± 0.0009 (21 [16])			0.0184 ± 0.0008 (23 [17])		
Relative (mg/g)	0.06 ± 0.00 (25 [17])			0.06 ± 0.00 (31 [22])			0.06 ± 0.00 (21 [16])			0.06 ± 0.00 (23 [17])		
Adrenal glands												
Absolute (g)	0.0665 ± 0.0014 (26 [18])			0.0670 ± 0.0020 (32 [22])			0.0729 ± 0.0027 (21 [16])			0.0676 ± 0.0017 (23 [17])		
Relative (mg/g)	0.21 ± 0.00 (26 [18])			0.21 ± 0.01 (31 [22])			0.24 ± 0.01 (21 [16]) *			0.22 ± 0.01 (23 [17])		
R. Ovary												
Absolute (g)	0.0668 ± 0.0021 (26 [18])			0.0678 ± 0.0019 (32 [22])			0.0745 ± 0.0027 (21 [16]) *			0.0599 ± 0.0026 (23 [17])		
Relative (mg/g)	0.21 ± 0.01 (26 [18])			0.22 ± 0.01 (31 [22])			0.24 ± 0.01 (21 [16]) **			0.19 ± 0.01 (23 [17])		
L. Ovary												
Absolute (g)	0.0656 ± 0.0022 (26 [18]) *			0.0670 ± 0.0023 (32 [22])			0.0699 ± 0.0030 (21 [16])			0.0589 ± 0.0018 (23 [17])		
Relative (mg/g)	0.21 ± 0.01 (26 [18])			0.22 ± 0.01 (31 [22])			0.23 ± 0.01 (21 [16])			0.19 ± 0.01 (23 [17])		

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Lab: RTI

LEGEND

Data reported as the mean \pm SEM (number of animals) for the F1 Subchronic animals and F1 Prenatal animals. Data is reported as the mean of the litter mean \pm SEM of the litter mean (number of animals [number of litters]) for the F1 Fertility animals.

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

Calculated values do not include non-pregnant F1 prenatal or fertility animals.

Statistical analysis for the F1 subchronic and prenatal animals was performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

Statistical analysis for the F1 fertility animals was performed using mixed models, with Dam ID as random effect for both trend and pairwise tests, and using Dunnett-Hsu adjustments for multiple 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 $P \leq 0.01$

Terminal Body weight for one fertility female in the 1000 ppm dose group was excluded because it was inconsistent with other body weight readings for that animal.

The terminal body weight for the prenatal females is the final body weight minus the gravid uterine weight.

**** END OF REPORT ****