

Study Number: MOG002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA06R: Organ Weights Summary
Test Compound: 2-Hydroxy-4-methoxybenzophenone
CAS Number: 131-57-7

Date Report Requested: 12/13/2019
Time Report Requested: 13:28:54
Lab: RTI

C Number:

MOG002B

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

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F1 Males: Fertility Male

	Treatment Groups (ppm)														
	0			3000			10000			30000			0.05 ppm EE		
Terminal Body Wt. (g)	485.5	± 5.0	(41 [22]) **	478.5	± 4.6	(40 [20])	468.3	± 5.2	(40 [21])	419.6	± 6.9	(40 [20]) **	389.5	± 6.2	(30 [15]) **
Thyroid gland															
Absolute (g)	0.0209	± 0.0008	(41 [22]) **	0.0201	± 0.0007	(38 [20])	0.0204	± 0.0006	(40 [21])	0.0180	± 0.0006	(40 [20]) *	0.0175	± 0.0007	(30 [15]) **
Relative (mg/g)	0.04	± 0.00	(41 [22])	0.04	± 0.00	(38 [20])	0.04	± 0.00	(40 [21])	0.04	± 0.00	(40 [20])	0.05	± 0.00	(30 [15])
Liver															
Absolute (g)	18.25	± 0.30	(41 [22]) **	19.29	± 0.32	(40 [20])	21.19	± 0.35	(40 [21]) **	21.09	± 0.34	(40 [20]) **	15.41	± 0.29	(30 [15]) **
Relative (mg/g)	37.55	± 0.35	(41 [22]) **	40.27	± 0.44	(40 [20]) **	45.24	± 0.52	(40 [21]) **	50.37	± 0.52	(40 [20]) **	39.56	± 0.47	(30 [15]) **
R. Kidney															
Absolute (g)	1.65	± 0.02	(41 [22]) **	1.74	± 0.03	(40 [20])	1.84	± 0.03	(40 [21]) **	2.02	± 0.04	(40 [20]) **	1.41	± 0.02	(30 [15]) **
Relative (mg/g)	3.41	± 0.04	(41 [22]) **	3.64	± 0.04	(40 [20]) *	3.92	± 0.05	(40 [21]) **	4.84	± 0.10	(40 [20]) **	3.64	± 0.04	(30 [15]) **
L. Kidney															
Absolute (g)	1.65	± 0.02	(41 [22]) **	1.74	± 0.03	(40 [20])	1.84	± 0.04	(40 [21]) **	2.01	± 0.04	(40 [20]) **	1.42	± 0.02	(30 [15]) **
Relative (mg/g)	3.39	± 0.04	(41 [22]) **	3.64	± 0.04	(40 [20])	3.93	± 0.06	(40 [21]) **	4.82	± 0.11	(40 [20]) **	3.65	± 0.06	(30 [15]) **
Adrenal glands															
Absolute (g)	0.0664	± 0.0018	(41 [22])	0.0610	± 0.0013	(40 [20]) *	0.0602	± 0.0013	(39 [21]) *	0.0611	± 0.0013	(40 [20])	0.0605	± 0.0017	(30 [15]) *
Relative (mg/g)	0.14	± 0.00	(41 [22]) **	0.13	± 0.00	(40 [20])	0.13	± 0.00	(39 [21])	0.15	± 0.00	(40 [20])	0.16	± 0.01	(30 [15]) *
R. Testis															
Absolute (g)	2.101	± 0.023	(41 [22]) **	2.075	± 0.021	(39 [20])	1.978	± 0.027	(40 [21]) *	1.979	± 0.035	(40 [20]) *	1.915	± 0.026	(30 [15]) **
Relative (mg/g)	4.34	± 0.05	(41 [22]) **	4.35	± 0.05	(39 [20])	4.24	± 0.06	(40 [21])	4.73	± 0.07	(40 [20]) **	4.94	± 0.08	(30 [15]) **
L. Testis															
Absolute (g)	2.104	± 0.020	(41 [22]) **	2.066	± 0.017	(40 [20])	1.977	± 0.029	(40 [21]) **	1.978	± 0.028	(40 [20]) **	1.920	± 0.024	(30 [15]) **
Relative (mg/g)	4.35	± 0.05	(41 [22]) **	4.33	± 0.04	(40 [20])	4.23	± 0.07	(40 [21])	4.73	± 0.06	(40 [20]) **	4.95	± 0.08	(30 [15]) **
R. Epididymis															
Absolute (g)	0.693	± 0.008	(41 [22]) **	0.687	± 0.006	(40 [20])	0.663	± 0.010	(40 [21])	0.657	± 0.011	(40 [20]) *	0.638	± 0.008	(30 [15]) **
Relative (mg/g)	1.43	± 0.02	(41 [22]) **	1.44	± 0.02	(40 [20])	1.42	± 0.02	(40 [21])	1.57	± 0.02	(40 [20]) **	1.65	± 0.02	(30 [15]) **
L. Epididymis															
Absolute (g)	0.695	± 0.007	(41 [22]) **	0.683	± 0.006	(40 [20])	0.667	± 0.009	(40 [21])	0.651	± 0.009	(40 [20]) **	0.640	± 0.007	(30 [15]) **
Relative (mg/g)	1.43	± 0.02	(41 [22]) **	1.43	± 0.02	(40 [20])	1.43	± 0.02	(40 [21])	1.56	± 0.02	(40 [20]) **	1.65	± 0.02	(30 [15]) **

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F1 Males: Fertility Male

	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
Seminal vesicles with coagulating gland					
Absolute (g)	1.510 ± 0.036 (38 [22])	1.496 ± 0.041 (36 [19])	1.452 ± 0.043 (38 [21])	1.415 ± 0.034 (39 [20])	1.328 ± 0.045 (29 [15]) *
Relative (mg/g)	3.12 ± 0.06 (38 [22]) *	3.14 ± 0.09 (36 [19])	3.11 ± 0.09 (38 [21])	3.39 ± 0.09 (39 [20])	3.43 ± 0.11 (29 [15]) *
Dorso-lateral prostate gland					
Absolute (g)	0.451 ± 0.012 (41 [22]) **	0.474 ± 0.017 (39 [20])	0.447 ± 0.015 (40 [21])	0.403 ± 0.015 (40 [20])	0.413 ± 0.014 (30 [15])
Relative (mg/g)	0.93 ± 0.03 (41 [22])	0.99 ± 0.03 (39 [20])	0.96 ± 0.03 (40 [21])	0.96 ± 0.04 (40 [20])	1.07 ± 0.04 (30 [15]) *
Ventral prostate gland					
Absolute (g)	0.740 ± 0.020 (41 [22]) **	0.737 ± 0.020 (39 [20])	0.662 ± 0.018 (40 [21]) *	0.599 ± 0.021 (40 [20]) **	0.673 ± 0.028 (30 [15])
Relative (mg/g)	1.53 ± 0.04 (41 [22])	1.54 ± 0.04 (39 [20])	1.42 ± 0.04 (40 [21])	1.44 ± 0.05 (40 [20])	1.72 ± 0.06 (30 [15]) *
Levator ani-bulbocavernosus muscles (LABC)					
Absolute (g)	1.238 ± 0.019 (41 [22]) **	1.213 ± 0.017 (40 [20])	1.182 ± 0.015 (40 [21])	1.093 ± 0.025 (40 [20]) **	1.079 ± 0.022 (30 [15]) **
Relative (mg/g)	2.56 ± 0.04 (41 [22])	2.54 ± 0.03 (40 [20])	2.53 ± 0.03 (40 [21])	2.61 ± 0.05 (40 [20])	2.78 ± 0.05 (30 [15]) **
Cowpers glands					
Absolute (g)	0.1145 ± 0.0024 (41 [22]) **	0.1084 ± 0.0027 (40 [20])	0.1060 ± 0.0022 (40 [21])	0.1022 ± 0.0028 (40 [20]) **	0.1079 ± 0.0028 (30 [15])
Relative (mg/g)	0.24 ± 0.01 (41 [22])	0.23 ± 0.01 (40 [20])	0.23 ± 0.00 (40 [21])	0.25 ± 0.01 (40 [20])	0.28 ± 0.01 (30 [15]) **
Preputial glands					
Absolute (g)	0.1694 ± 0.0072 (41 [22]) **	0.1890 ± 0.0063 (38 [19])	0.1750 ± 0.0077 (39 [21])	0.1487 ± 0.0071 (39 [20])	0.1664 ± 0.0082 (30 [15])
Relative (mg/g)	0.35 ± 0.01 (41 [22])	0.40 ± 0.01 (38 [19])	0.37 ± 0.02 (39 [21])	0.36 ± 0.02 (39 [20])	0.43 ± 0.02 (30 [15]) **

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F1 Males: Prenatal Male

	Treatment Groups (ppm)														
	0			3000			10000			30000			0.05 ppm EE		
Terminal Body Wt. (g)	422.3	± 6.6	(23) **	430.9	± 7.1	(20)	414.2	± 5.0	(22)	365.1	± 5.4	(20) **	353.8	± 5.8	(15) **
Thyroid gland															
Absolute (g)	0.0186 ± 0.0009 (23)			0.0181 ± 0.0010 (20)			0.0190 ± 0.0008 (21)			0.0171 ± 0.0012 (19)			0.0185 ± 0.0014 (15)		
Relative (mg/g)	0.04 ± 0.00 (23)			0.04 ± 0.00 (20)			0.05 ± 0.00 (21)			0.05 ± 0.00 (19)			0.05 ± 0.00 (15)		
Liver															
Absolute (g)	18.80 ± 0.50 (23) **			20.81 ± 0.42 (20) **			22.58 ± 0.49 (22) **			21.41 ± 0.32 (20) **			15.70 ± 0.46 (15) **		
Relative (mg/g)	44.43 ± 0.67 (23) **			48.36 ± 0.76 (20) **			54.49 ± 0.91 (22) **			58.72 ± 0.69 (20) **			44.34 ± 0.91 (15)		
R. Kidney															
Absolute (g)	1.57 ± 0.04 (23) **			1.71 ± 0.02 (20) **			1.76 ± 0.04 (22) **			1.77 ± 0.05 (20) **			1.35 ± 0.02 (15) **		
Relative (mg/g)	3.71 ± 0.07 (23) **			3.99 ± 0.06 (20) *			4.25 ± 0.07 (22) **			4.85 ± 0.13 (20) **			3.82 ± 0.07 (15)		
L. Kidney															
Absolute (g)	1.53 ± 0.04 (23) **			1.72 ± 0.03 (20) **			1.74 ± 0.04 (22) **			1.73 ± 0.04 (20) **			1.34 ± 0.02 (15) **		
Relative (mg/g)	3.63 ± 0.06 (23) **			4.01 ± 0.11 (20) **			4.19 ± 0.07 (22) **			4.73 ± 0.07 (20) **			3.79 ± 0.07 (15)		
Adrenal glands															
Absolute (g)	0.0655 ± 0.0023 (23)			0.0666 ± 0.0022 (20)			0.0660 ± 0.0020 (22)			0.0605 ± 0.0021 (20)			0.0590 ± 0.0025 (15)		
Relative (mg/g)	0.16 ± 0.01 (23)			0.16 ± 0.01 (20)			0.16 ± 0.00 (22)			0.17 ± 0.01 (20)			0.17 ± 0.01 (15)		
R. Testis															
Absolute (g)	1.953 ± 0.036 (23) **			2.028 ± 0.027 (20)			1.908 ± 0.034 (22)			1.869 ± 0.030 (20)			1.874 ± 0.035 (15)		
Relative (mg/g)	4.64 ± 0.09 (23) **			4.73 ± 0.10 (20)			4.62 ± 0.09 (22)			5.13 ± 0.06 (20) **			5.31 ± 0.13 (15) **		
L. Testis															
Absolute (g)	1.966 ± 0.029 (23) **			2.034 ± 0.026 (20)			1.907 ± 0.035 (22)			1.855 ± 0.030 (20) *			1.874 ± 0.031 (15) *		
Relative (mg/g)	4.67 ± 0.08 (23) **			4.75 ± 0.11 (20)			4.61 ± 0.09 (22)			5.09 ± 0.07 (20) **			5.32 ± 0.13 (15) **		
R. Epididymis															
Absolute (g)	0.646 ± 0.014 (23)			0.664 ± 0.009 (20)			0.624 ± 0.009 (22)			0.625 ± 0.014 (20)			0.605 ± 0.014 (15)		
Relative (mg/g)	1.53 ± 0.03 (23) **			1.55 ± 0.03 (20)			1.51 ± 0.02 (22)			1.71 ± 0.03 (20) **			1.71 ± 0.04 (15) **		
L. Epididymis															
Absolute (g)	0.648 ± 0.012 (23)			0.667 ± 0.009 (20)			0.633 ± 0.013 (22)			0.623 ± 0.013 (20)			0.605 ± 0.016 (15) *		
Relative (mg/g)	1.54 ± 0.03 (23) **			1.56 ± 0.03 (20)			1.53 ± 0.03 (22)			1.71 ± 0.03 (20) **			1.71 ± 0.05 (15) **		

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F1 Males: Prenatal Male

	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
Seminal vesicles with coagulating gland					
Absolute (g)	1.494 ± 0.051 (22)	1.527 ± 0.064 (19)	1.435 ± 0.043 (20)	1.440 ± 0.048 (16)	1.341 ± 0.053 (15)
Relative (mg/g)	3.56 ± 0.13 (22)	3.57 ± 0.16 (19)	3.45 ± 0.10 (20)	3.94 ± 0.14 (16)	3.81 ± 0.17 (15)
Dorso-lateral prostate gland					
Absolute (g)	0.491 ± 0.017 (23)	0.465 ± 0.033 (20)	0.496 ± 0.022 (22)	0.432 ± 0.021 (20)	0.400 ± 0.018 (15) **
Relative (mg/g)	1.16 ± 0.04 (23)	1.08 ± 0.08 (20)	1.20 ± 0.05 (22)	1.18 ± 0.05 (20)	1.14 ± 0.06 (15)
Ventral prostate gland					
Absolute (g)	0.570 ± 0.026 (23)	0.539 ± 0.026 (20)	0.544 ± 0.021 (22)	0.516 ± 0.019 (20)	0.524 ± 0.023 (15)
Relative (mg/g)	1.36 ± 0.07 (23)	1.25 ± 0.06 (20)	1.31 ± 0.05 (22)	1.41 ± 0.05 (20)	1.49 ± 0.08 (15)
Levator ani-bulbocavernosus muscles (LABC)					
Absolute (g)	1.249 ± 0.028 (23) **	1.236 ± 0.034 (20)	1.145 ± 0.027 (22) *	1.127 ± 0.032 (20) **	1.141 ± 0.028 (15) *
Relative (mg/g)	2.96 ± 0.06 (23)	2.88 ± 0.09 (20)	2.77 ± 0.06 (22)	3.09 ± 0.08 (20)	3.23 ± 0.07 (15) **
Cowpers glands					
Absolute (g)	0.1120 ± 0.0037 (23) *	0.1080 ± 0.0030 (19)	0.1076 ± 0.0043 (22)	0.0977 ± 0.0034 (20) *	0.1092 ± 0.0045 (15)
Relative (mg/g)	0.27 ± 0.01 (23)	0.25 ± 0.01 (19)	0.26 ± 0.01 (22)	0.27 ± 0.01 (20)	0.31 ± 0.01 (15) **
Preputial glands					
Absolute (g)	0.1418 ± 0.0114 (23)	0.1687 ± 0.0128 (20)	0.1466 ± 0.0096 (22)	0.1346 ± 0.0091 (20)	0.1411 ± 0.0129 (15)
Relative (mg/g)	0.34 ± 0.03 (23)	0.39 ± 0.03 (20)	0.35 ± 0.02 (22)	0.37 ± 0.03 (20)	0.40 ± 0.03 (15)

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F1 Females: Fertility Female

	Treatment Groups (ppm)														
	0			3000			10000			30000			0.05 ppm EE		
Terminal Body Wt. (g)	316.7	± 4.6	(35 [22]) **	315.1	± 3.4	(37 [20])	302.1	± 3.1	(33 [20]) *	262.1	± 3.6	(32 [20]) **	255.7	± 3.8	(28 [15]) **
Thyroid gland															
Absolute (g)	0.0203 ± 0.0008 (35 [22]) *			0.0197 ± 0.0007 (37 [20])			0.0195 ± 0.0007 (33 [20])			0.0179 ± 0.0006 (32 [20])			0.0167 ± 0.0008 (27 [15]) **		
Relative (mg/g)	0.06 ± 0.00 (35 [22])			0.06 ± 0.00 (37 [20])			0.06 ± 0.00 (33 [20])			0.07 ± 0.00 (32 [20])			0.07 ± 0.00 (27 [15])		
Liver															
Absolute (g)	14.02 ± 0.41 (35 [22]) **			15.82 ± 0.36 (37 [20]) **			17.53 ± 0.37 (33 [20]) **			17.60 ± 0.54 (32 [20]) **			13.93 ± 0.32 (28 [15])		
Relative (mg/g)	44.12 ± 1.08 (35 [22]) **			50.19 ± 1.02 (37 [20]) **			58.14 ± 1.25 (33 [20]) **			67.40 ± 2.11 (32 [20]) **			54.57 ± 1.16 (28 [15]) **		
R. Kidney															
Absolute (g)	1.14 ± 0.02 (35 [22])			1.19 ± 0.02 (37 [20])			1.21 ± 0.01 (33 [20])			1.22 ± 0.04 (32 [20])			0.98 ± 0.02 (28 [15]) **		
Relative (mg/g)	3.61 ± 0.05 (35 [22]) **			3.78 ± 0.05 (37 [20])			4.01 ± 0.04 (33 [20]) *			4.70 ± 0.19 (32 [20]) **			3.85 ± 0.06 (28 [15]) **		
L. Kidney															
Absolute (g)	1.12 ± 0.02 (35 [22])			1.19 ± 0.01 (37 [20]) *			1.18 ± 0.01 (33 [20]) *			1.14 ± 0.02 (32 [20])			0.98 ± 0.02 (28 [15]) **		
Relative (mg/g)	3.53 ± 0.05 (35 [22]) **			3.79 ± 0.04 (37 [20]) **			3.92 ± 0.04 (33 [20]) **			4.37 ± 0.07 (32 [20]) **			3.86 ± 0.07 (28 [15]) **		
Adrenal glands															
Absolute (g)	0.0709 ± 0.0014 (35 [22]) **			0.0673 ± 0.0013 (37 [20])			0.0676 ± 0.0014 (33 [20])			0.0601 ± 0.0017 (32 [20]) **			0.0587 ± 0.0013 (28 [15]) **		
Relative (mg/g)	0.23 ± 0.01 (35 [22])			0.21 ± 0.00 (37 [20])			0.22 ± 0.01 (33 [20])			0.23 ± 0.01 (32 [20])			0.23 ± 0.01 (28 [15])		
R. Ovary															
Absolute (g)	0.0745 ± 0.0029 (35 [22]) **			0.0681 ± 0.0022 (37 [20])			0.0656 ± 0.0027 (33 [20])			0.0577 ± 0.0029 (32 [20]) **			0.0549 ± 0.0026 (28 [15]) **		
Relative (mg/g)	0.24 ± 0.01 (35 [22])			0.22 ± 0.01 (37 [20])			0.22 ± 0.01 (33 [20])			0.22 ± 0.01 (32 [20])			0.21 ± 0.01 (28 [15])		
L. Ovary															
Absolute (g)	0.0712 ± 0.0024 (35 [22]) **			0.0705 ± 0.0022 (37 [20])			0.0682 ± 0.0028 (32 [19])			0.0593 ± 0.0029 (32 [20]) **			0.0625 ± 0.0041 (28 [15])		
Relative (mg/g)	0.23 ± 0.01 (35 [22])			0.22 ± 0.01 (37 [20])			0.23 ± 0.01 (32 [19])			0.23 ± 0.01 (32 [20])			0.25 ± 0.02 (28 [15])		

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F1 Females: Prenatal Female

	Treatment Groups (ppm)														
	0			3000			10000			30000			0.05 ppm EE		
Terminal Body Wt. (g)	315.5	± 5.2	(19) **	304.5	± 5.7	(17)	291.6	± 2.9	(19) **	256.8	± 4.6	(18) **	249.5	± 3.4	(15) **
Liver															
Absolute (g)	15.18	± 0.46	(19)	16.15	± 0.44	(17)	16.38	± 0.23	(19)	15.80	± 0.44	(18)	12.83	± 0.30	(15) **
Relative (mg/g)	48.07	± 1.08	(19) **	53.02	± 1.01	(17) **	56.17	± 0.58	(19) **	61.42	± 0.99	(18) **	51.43	± 0.96	(15) *
Adrenal glands															
Absolute (g)	0.0726 ± 0.0020 (19)			0.0661 ± 0.0019 (17)			0.0661 ± 0.0025 (19)			0.0701 ± 0.0028 (18)			0.0557 ± 0.0017 (15) **		
Relative (mg/g)	0.23	± 0.01	(19) **	0.22	± 0.01	(17)	0.23	± 0.01	(19)	0.27	± 0.01	(18) **	0.22	± 0.01	(15)
R. Ovary															
Absolute (g)	0.1055 ± 0.0045 (19) **			0.0920 ± 0.0050 (17) *			0.0926 ± 0.0048 (19) *			0.0835 ± 0.0034 (18) **			0.0748 ± 0.0040 (15) **		
Relative (mg/g)	0.33	± 0.01	(19)	0.30	± 0.02	(17)	0.32	± 0.02	(19)	0.32	± 0.01	(18)	0.30	± 0.02	(15)
L. Ovary															
Absolute (g)	0.0962 ± 0.0061 (19) *			0.1011 ± 0.0034 (17)			0.0852 ± 0.0048 (19)			0.0851 ± 0.0054 (18)			0.0688 ± 0.0047 (15) **		
Relative (mg/g)	0.31	± 0.02	(19)	0.33	± 0.01	(17)	0.29	± 0.02	(19)	0.33	± 0.02	(18)	0.27	± 0.02	(15)

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LEGEND

Data reported as the mean \pm SEM (number of animals) for the F1 Prenatal animals and 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

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 $P \leq 0.01$

Non-pregnant females from the F0 and F1 generations are included in the analysis.

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

Analysis of the F1 Fertility Male and Female data for both linear trend and pairwise analysis was performed using mixed effects models with the Dam ID as the random effects.

The EE group was not included in any trend analysis, it was included in the pairwise analysis to the control group.

Decrease in N for Preputial glands weight in the 3000 ppm dose group for the Fertility males is due to one male's value being excluded because it was an outlier.

Decrease in N for L. Ovary weight in the 10000 ppm dose group for the Fertility females is due to one female's value being excluded because it was an outlier.

EE = Ethinyl estradiol

**** END OF REPORT ****