

**Experiment Number:** C20605-01

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**C Number:**

C20605-01

**Cage Range:**

All

**Date Range:**

All

**Reasons For Removal:**

All

**Removal Date Range:**

All

**Treatment Groups:**

All

**Study Gender:**

Both

**PA06: Organ Weights Summary**

**Test Compound:** Gum Guggul Extract

**CAS Number:** GUMGUGGULEXT

**Date Report Requested:** 05/01/2017

**Time Report Requested:** 14:31:55

**Lab:** NTP

Experiment Number: C20605-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA06: Organ Weights Summary

Test Compound: Gum Guggul Extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017

Time Report Requested: 14:31:55

Lab: NTP

Males: Day 28 Males

	Treatment Groups (mg/kg)					
	0	62.5	125	250	500	1000
Terminal Body Wt.	299.5 ± 5.5 (10)	298.4 ± 5.2 (10)	295.1 ± 7.0 (10)	297.2 ± 6.9 (10)	300.5 ± 6.6 (10)	309.0 ± 5.7 (10)
Heart						
Absolute (g)	1.13 ± 0.03 (10)	1.13 ± 0.03 (10)	1.15 ± 0.03 (10)	1.18 ± 0.02 (10)	1.13 ± 0.04 (10)	1.19 ± 0.03 (10)
Relative (mg/g)	3.78 ± 0.08 (10)	3.79 ± 0.06 (10)	3.89 ± 0.10 (10)	3.99 ± 0.08 (10)	3.75 ± 0.08 (10)	3.84 ± 0.05 (10)
R. Kidney						
Absolute (g)	0.97 ± 0.03 (10)	0.93 ± 0.02 (10)	0.95 ± 0.03 (10)	0.97 ± 0.03 (10)	0.98 ± 0.04 (10)	1.10 ± 0.09 (10)
Relative (mg/g)	3.23 ± 0.05 (10)	3.12 ± 0.06 (10)	3.23 ± 0.06 (10)	3.26 ± 0.11 (10)	3.25 ± 0.07 (10)	3.53 ± 0.25 (10)
Liver						
Absolute (g)	12.18 ± 0.40 (10) **	12.09 ± 0.33 (10)	12.39 ± 0.57 (10)	12.74 ± 0.38 (10)	13.03 ± 0.62 (10)	13.98 ± 0.41 (10) **
Relative (mg/g)	40.61 ± 0.88 (10) **	40.47 ± 0.60 (10)	41.83 ± 1.15 (10)	42.92 ± 1.19 (10)	43.17 ± 1.12 (10)	45.18 ± 0.60 (10) **
Lung						
Absolute (g)	2.10 ± 0.17 (10)	2.08 ± 0.12 (10)	2.06 ± 0.12 (10)	1.98 ± 0.09 (10)	1.92 ± 0.08 (10)	2.18 ± 0.12 (10)
Relative (mg/g)	6.95 ± 0.45 (10)	6.94 ± 0.35 (10)	6.96 ± 0.29 (10)	6.66 ± 0.24 (10)	6.38 ± 0.17 (10)	7.04 ± 0.38 (10)
R. Testis						
Absolute (g)	1.678 ± 0.025 (10)	1.765 ± 0.033 (10)	1.736 ± 0.033 (10)	1.725 ± 0.040 (10)	1.721 ± 0.031 (10)	1.683 ± 0.042 (10)
Relative (mg/g)	5.62 ± 0.12 (10)	5.92 ± 0.09 (10)	5.90 ± 0.12 (10)	5.81 ± 0.08 (10)	5.74 ± 0.13 (10)	5.46 ± 0.17 (10)
Thymus						
Absolute (g)	0.528 ± 0.020 (10)	0.554 ± 0.021 (10)	0.421 ± 0.021 (10) *	0.514 ± 0.034 (10)	0.516 ± 0.025 (10)	0.573 ± 0.029 (10)
Relative (mg/g)	1.76 ± 0.04 (10)	1.86 ± 0.07 (10)	1.44 ± 0.09 (10) *	1.72 ± 0.08 (10)	1.72 ± 0.07 (10)	1.85 ± 0.08 (10)

Experiment Number: C20605-01

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Species/Strain: Rat/Harlan Sprague Dawley

PA06: Organ Weights Summary

Test Compound: Gum Guggul Extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017

Time Report Requested: 14:31:55

Lab: NTP

Females: Day 28 Females

	Treatment Groups (mg/kg)																	
	0			62.5			125			250			500			1000		
Terminal Body Wt.	196.3	± 2.4	(10)	191.9	± 4.2	(10)	188.6	± 4.2	(10)	188.4	± 4.8	(10)	199.2	± 3.6	(10)	200.7	± 4.5	(10)
Heart																		
Absolute (g)	0.80	± 0.01	(10)	0.80	± 0.02	(10)	0.77	± 0.02	(10)	0.80	± 0.03	(10)	0.81	± 0.02	(10)	0.83	± 0.02	(10)
Relative (mg/g)	4.06	± 0.09	(10)	4.15	± 0.07	(10)	4.08	± 0.09	(10)	4.26	± 0.09	(10)	4.06	± 0.09	(10)	4.15	± 0.08	(10)
R. Kidney																		
Absolute (g)	0.64	± 0.01	(10) *	0.65	± 0.01	(10)	0.63	± 0.02	(10)	0.65	± 0.02	(10)	0.65	± 0.01	(10)	0.71	± 0.03	(10) *
Relative (mg/g)	3.25	± 0.07	(10)	3.42	± 0.06	(10)	3.32	± 0.08	(10)	3.44	± 0.06	(10)	3.28	± 0.04	(10)	3.51	± 0.07	(10) *
Liver																		
Absolute (g)	7.89	± 0.13	(10) **	8.12	± 0.25	(10)	8.12	± 0.30	(10)	8.58	± 0.39	(10)	9.18	± 0.21	(10) **	10.27	± 0.31	(10) **
Relative (mg/g)	40.18	± 0.50	(10) **	42.28	± 0.69	(10)	42.96	± 0.95	(10) *	45.34	± 1.02	(10) **	46.08	± 0.62	(10) **	51.10	± 0.66	(10) **
Lung																		
Absolute (g)	1.56	± 0.09	(10)	1.52	± 0.11	(10)	1.48	± 0.06	(10)	1.39	± 0.07	(10)	1.49	± 0.07	(10)	1.51	± 0.05	(10)
Relative (mg/g)	7.93	± 0.42	(10)	7.93	± 0.59	(10)	7.88	± 0.41	(10)	7.36	± 0.33	(10)	7.52	± 0.38	(10)	7.54	± 0.26	(10)
Thymus																		
Absolute (g)	0.354	± 0.011	(10)	0.369	± 0.027	(10)	0.358	± 0.019	(10)	0.358	± 0.018	(10)	0.351	± 0.018	(10)	0.362	± 0.012	(10)
Relative (mg/g)	1.81	± 0.06	(10)	1.91	± 0.12	(10)	1.90	± 0.10	(10)	1.90	± 0.07	(10)	1.77	± 0.09	(10)	1.81	± 0.06	(10)

Experiment Number: C20605-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA06: Organ Weights Summary

Test Compound: Gum Guggul Extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017

Time Report Requested: 14:31:55

Lab: NTP

Males: Day 92 Males

	Treatment Groups (mg/kg)																	
	0			62.5			125			250			500			1000		
Terminal Body Wt.	406.9	± 13.5	(10)	421.6	± 8.8	(10)	409.1	± 8.6	(10)	407.6	± 9.0	(10)	405.6	± 9.6	(10)	404.3	± 7.2	(10)
Heart																		
Absolute (g)	1.38	± 0.04	(10)	1.45	± 0.03	(10)	1.39	± 0.04	(10)	1.41	± 0.03	(10)	1.39	± 0.05	(10)	1.41	± 0.04	(10)
Relative (mg/g)	3.41	± 0.08	(10)	3.44	± 0.05	(10)	3.39	± 0.06	(10)	3.47	± 0.06	(10)	3.43	± 0.10	(10)	3.48	± 0.08	(10)
R. Kidney																		
Absolute (g)	1.13	± 0.04	(10)	1.18	± 0.02	(10)	1.16	± 0.04	(10)	1.16	± 0.03	(10)	1.17	± 0.04	(10)	1.23	± 0.03	(10)
Relative (mg/g)	2.78	± 0.05	(10)**	2.80	± 0.04	(10)	2.82	± 0.06	(10)	2.86	± 0.06	(10)	2.88	± 0.07	(10)	3.03	± 0.04	(10)**
Liver																		
Absolute (g)	13.22	± 0.56	(10)**	14.20	± 0.37	(10)	13.72	± 0.34	(10)	14.15	± 0.48	(10)	14.27	± 0.48	(10)	15.91	± 0.48	(10)**
Relative (mg/g)	32.42	± 0.40	(10)**	33.66	± 0.42	(10)	33.53	± 0.40	(10)	34.65	± 0.57	(10)**	35.14	± 0.65	(10)**	39.28	± 0.61	(10)**
Lung																		
Absolute (g)	2.21	± 0.11	(9)	2.32	± 0.17	(10)	2.38	± 0.13	(10)	2.33	± 0.11	(10)	2.30	± 0.11	(10)	2.27	± 0.14	(10)
Relative (mg/g)	5.47	± 0.22	(9)	5.50	± 0.39	(10)	5.82	± 0.27	(10)	5.71	± 0.22	(10)	5.65	± 0.20	(10)	5.60	± 0.30	(10)
R. Testis																		
Absolute (g)	1.886	± 0.046	(10)	1.891	± 0.037	(10)	1.909	± 0.064	(10)	1.873	± 0.042	(10)	1.864	± 0.050	(10)	1.885	± 0.042	(10)
Relative (mg/g)	4.66	± 0.10	(10)	4.49	± 0.09	(10)	4.67	± 0.14	(10)	4.61	± 0.13	(10)	4.60	± 0.10	(10)	4.67	± 0.10	(10)
Thymus																		
Absolute (g)	0.347	± 0.022	(10)*	0.325	± 0.015	(10)	0.329	± 0.030	(10)	0.316	± 0.018	(10)	0.309	± 0.018	(10)	0.268	± 0.017	(10)*
Relative (mg/g)	0.85	± 0.04	(10)*	0.77	± 0.03	(10)	0.81	± 0.08	(10)	0.77	± 0.04	(10)	0.76	± 0.04	(10)	0.66	± 0.04	(10)*

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Species/Strain: Rat/Harlan Sprague Dawley

PA06: Organ Weights Summary

Test Compound: Gum Guggul Extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017

Time Report Requested: 14:31:55

Lab: NTP

Females: Day 92 Females

	Treatment Groups (mg/kg)					
	0	62.5	125	250	500	1000
Terminal Body Wt.	245.9 ± 5.9 (9)	255.2 ± 8.0 (10)	248.7 ± 3.9 (9)	241.9 ± 4.0 (10)	247.0 ± 4.5 (9)	257.2 ± 7.0 (10)
Heart						
Absolute (g)	0.93 ± 0.02 (9) *	0.93 ± 0.04 (10)	0.90 ± 0.02 (9)	0.96 ± 0.02 (10)	0.96 ± 0.02 (9)	0.99 ± 0.03 (10)
Relative (mg/g)	3.79 ± 0.08 (9) **	3.63 ± 0.05 (10)	3.63 ± 0.05 (9)	3.99 ± 0.08 (10)	3.90 ± 0.05 (9)	3.86 ± 0.09 (10)
R. Kidney						
Absolute (g)	0.75 ± 0.02 (9) *	0.74 ± 0.02 (10)	0.73 ± 0.01 (9)	0.74 ± 0.01 (10)	0.79 ± 0.02 (9)	0.79 ± 0.01 (10)
Relative (mg/g)	3.07 ± 0.07 (9) *	2.89 ± 0.03 (10)	2.92 ± 0.05 (9)	3.05 ± 0.07 (10)	3.18 ± 0.06 (9)	3.07 ± 0.07 (10)
Liver						
Absolute (g)	8.27 ± 0.27 (9) **	8.88 ± 0.39 (10)	8.72 ± 0.34 (9)	8.85 ± 0.21 (10)	10.36 ± 0.53 (9) **	11.83 ± 0.46 (10) **
Relative (mg/g)	33.65 ± 0.79 (9) **	34.72 ± 0.77 (10)	35.02 ± 1.08 (9)	36.62 ± 0.72 (10)	41.87 ± 1.74 (9) **	45.98 ± 1.07 (10) **
Lung						
Absolute (g)	1.72 ± 0.10 (9)	1.71 ± 0.08 (10)	1.59 ± 0.11 (9)	1.68 ± 0.05 (10)	1.81 ± 0.10 (9)	1.70 ± 0.05 (10)
Relative (mg/g)	6.98 ± 0.32 (9)	6.73 ± 0.25 (10)	6.35 ± 0.36 (9)	6.94 ± 0.19 (10)	7.35 ± 0.42 (9)	6.64 ± 0.18 (10)
Thymus						
Absolute (g)	0.217 ± 0.022 (9)	0.262 ± 0.010 (10)	0.232 ± 0.017 (9)	0.234 ± 0.010 (10)	0.207 ± 0.014 (9)	0.241 ± 0.016 (10)
Relative (mg/g)	0.88 ± 0.08 (9)	1.03 ± 0.05 (10)	0.93 ± 0.06 (9)	0.97 ± 0.05 (10)	0.83 ± 0.05 (9)	0.93 ± 0.05 (10)

**Experiment Number:** C20605-01

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06: Organ Weights Summary**

**Test Compound:** Gum Guggul Extract

**CAS Number:** GUMGUGGULEXT

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#### LEGEND

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Data are displayed as mean  $\pm$  SEM (N)

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 William or Dunnett (pairwise) tests

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  $P \leq 0.01$

**\*\* END OF REPORT \*\***