

**Experiment Number:** C20605-02

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Mouse/B6C3F1/N

**C Number:**

C20605-02

**Cage Range:**

All

**Date Range:**

All

**Reasons For Removal:**

All

**Removal Date Range:**

All

**Treatment Groups:**

All

**Study Gender:**

Both

**PA49: Summary of Cytochrome Activity**

**Test Compound:** Gum Guggul Extract

**CAS Number:** GUMGUGGULEXT

**Date Report Requested:** 05/09/2017

**Time Report Requested:** 13:56:49

**Lab:** NTP

Experiment Number: C20605-02

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PA49: Summary of Cytochrome Activity

Test Compound: Gum Guggul Extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 05/09/2017

Time Report Requested: 13:56:49

Lab: NTP

Male: Day 28 Males

Treatment Groups (mg/kg)

	0	15.5	31	62.5	125
Cytochrome P450 2B1 (pmol/mg/min)	8.600 ± 0.796 (5)	7.955 ± 0.996 (4)	7.396 ± 0.459 (5)	7.172 ± 0.553 (5)	8.244 ± 0.398 (5)
Cytochrome P450 3A4 (pmol/mg/min)	850.0 ± 59.6 (5) **	856.8 ± 54.8 (4)	849.4 ± 47.9 (5)	938.8 ± 68.0 (5)	1098.0 ± 71.7 (5) *

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Male: Day 28 Males

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Treatment Groups (mg/kg)

250

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Cytochrome P450 2B1 (pmol/mg/min)	9.466 ± 0.935 (5)
Cytochrome P450 3A4 (pmol/mg/min)	1548.0 ± 146.7 (5) **

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Male: Day 92 Males

Treatment Groups (mg/kg)

	0	15.5	31	62.5	125
Cytochrome P450 2B1 (pmol/mg/min)	11.468 ± 0.936 (5) *	9.804 ± 0.701 (5)	11.224 ± 0.873 (5)	10.536 ± 0.783 (5)	11.072 ± 1.021 (5)
Cytochrome P450 3A4 (pmol/mg/min)	803.8 ± 55.0 (5) **	802.8 ± 58.2 (5)	920.0 ± 80.3 (5)	965.4 ± 57.5 (5)	1080.0 ± 21.7 (5) *

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**Male: Day 92 Males**

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**Treatment Groups (mg/kg)**

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**250**

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Cytochrome P450 2B1  
(pmol/mg/min)      16.440 ± 0.833 (5)

Cytochrome P450 3A4  
(pmol/mg/min)      1740.0 ± 126.8 (5) \*\*

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Female: Day 28 Females

Treatment Groups (mg/kg)

	0	15.5	31	62.5	125
Cytochrome P450 2B1 (pmol/mg/min)	14.880 ± 0.635 (5)	14.340 ± 0.440 (5)	13.344 ± 1.914 (5)	12.320 ± 0.514 (5)	13.718 ± 1.929 (5)
Cytochrome P450 3A4 (pmol/mg/min)	1020.0 ± 63.6 (5) *	945.6 ± 77.3 (5)	872.8 ± 121.3 (5)	1091.2 ± 76.0 (5)	1013.6 ± 123.1 (5)

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**Female: Day 28 Females**

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**Treatment Groups (mg/kg)**

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**250**

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Cytochrome P450 2B1 (pmol/mg/min)	17.400 ± 1.211 (5)
Cytochrome P450 3A4 (pmol/mg/min)	1376.0 ± 49.2 (5)

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**Female: Day 92 Females**

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**Treatment Groups (mg/kg)**

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	<b>0</b>	<b>15.5</b>	<b>31</b>	<b>62.5</b>	<b>125</b>
Cytochrome P450 2B1 (pmol/mg/min)	14.920 ± 0.984 (5) **	14.620 ± 1.116 (5)	16.780 ± 1.386 (5)	16.520 ± 1.548 (5)	17.600 ± 1.051 (5)
Cytochrome P450 3A4 (pmol/mg/min)	1290.0 ± 59.7 (5) **	1200.6 ± 192.7 (5)	1205.6 ± 111.1 (5)	1402.0 ± 87.3 (5)	1502.0 ± 95.6 (5)

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**Female: Day 92 Females**

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**Treatment Groups (mg/kg)**

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**250**

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Cytochrome P450 2B1 (pmol/mg/min)	24.380 ± 1.554 (5) **
Cytochrome P450 3A4 (pmol/mg/min)	1922.0 ± 144.8 (5) **

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#### LEGEND

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

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

Statistical significance for the control group indicates a significant trend test

\* Statistically significant at  $P \leq 0.05$

\*\* Statistically significant at  $P \leq 0.01$

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