

**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

**PA41: Clinical Chemistry Summary**

**Test Compound:** Gum Guggul Extract

**CAS Number:** GUMGUGGULEXT

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

**Time Report Requested:** 12:55:19

**Lab:** NTP

**Experiment Number:** C20605-02  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Mouse/B6C3F1/N

**PA41: Clinical Chemistry Summary**  
**Test Compound:** Gum Guggul Extract  
**CAS Number:** GUMGUGGULEXT

**Date Report Requested:** 05/09/2017  
**Time Report Requested:** 12:55:19  
**Lab:** NTP

---

**Male: Day 28 Males**

---

	Phase Day	Treatment Groups (mg/kg)				
		0	15.5	31	62.5	125
Glucose (mg/dL)	SD 28	185.2 ± 4.5 (10)	176.6 ± 2.8 (10)	179.6 ± 7.4 (10)	186.0 ± 3.1 (10)	181.2 ± 4.5 (10)
Percent of Control			95.4	97.0	100.4	97.8
Cholesterol (mg/dL)	SD 28	199.5 ± 11.3 (10)	197.0 ± 4.5 (10)	199.5 ± 5.9 (10)	190.5 ± 4.4 (10)	198.4 ± 2.8 (10)
Percent of Control			98.7	100.0	95.5	99.4
Triglyceride (mg/dL)	SD 28	133.4 ± 14.6 (10)	136.6 ± 12.3 (10)	143.2 ± 13.0 (10)	106.1 ± 7.3 (10)	140.7 ± 14.4 (10)
Percent of Control			102.4	107.3	79.5	105.5
Phospholipids (mg/dL)	SD 28	385.5 ± 20.6 (10)	372.6 ± 7.5 (10)	376.5 ± 12.9 (10)	362.4 ± 8.0 (10)	376.8 ± 6.6 (10)
Percent of Control			96.7	97.7	94.0	97.7

**Experiment Number:** C20605-02  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Mouse/B6C3F1/N

**PA41: Clinical Chemistry Summary**  
**Test Compound:** Gum Guggul Extract  
**CAS Number:** GUMGUGGULEXT

**Date Report Requested:** 05/09/2017  
**Time Report Requested:** 12:55:19  
**Lab:** NTP

---

**Male: Day 28 Males**

---

	<b>Phase Day</b>	<b>Treatment Groups</b>
		<b>250</b>
Glucose (mg/dL)	SD 28	178.0 ± 4.8 (10)
Percent of Control		96.1
Cholesterol (mg/dL)	SD 28	197.8 ± 7.6 (10)
Percent of Control		99.1
Triglyceride (mg/dL)	SD 28	153.2 ± 17.7 (10)
Percent of Control		114.8
Phospholipids (mg/dL)	SD 28	384.6 ± 10.2 (10)
Percent of Control		99.8

**Experiment Number:** C20605-02  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Mouse/B6C3F1/N

**PA41: Clinical Chemistry Summary**  
**Test Compound:** Gum Guggul Extract  
**CAS Number:** GUMGUGGULEXT

**Date Report Requested:** 05/09/2017  
**Time Report Requested:** 12:55:19  
**Lab:** NTP

---

**Male: Day 92 Males**

---

	Phase Day	Treatment Groups (mg/kg)				
		0	15.5	31	62.5	125
Glucose (mg/dL)	SD 92	167.1 ± 5.7 (15)	196.7 ± 10.9 (15)	180.5 ± 4.7 (15)	179.3 ± 7.4 (15)	183.1 ± 3.5 (15)
Percent of Control			117.7	108.1	107.3	109.6
Cholesterol (mg/dL)	SD 92	216.0 ± 6.9 (15)	214.5 ± 5.2 (15)	225.4 ± 7.2 (15)	217.4 ± 4.2 (15)	211.3 ± 4.9 (15)
Percent of Control			99.3	104.4	100.6	97.8
Triglyceride (mg/dL)	SD 92	157.9 ± 13.0 (15)	156.3 ± 10.3 (15)	142.2 ± 8.1 (15)	154.8 ± 12.0 (15)	145.8 ± 9.8 (15)
Percent of Control			99.0	90.1	98.1	92.4
Phospholipids (mg/dL)	SD 92	415.0 ± 8.9 (15)	413.4 ± 9.9 (15)	417.4 ± 13.5 (15)	414.2 ± 6.9 (15)	401.0 ± 9.8 (15)
Percent of Control			99.6	100.6	99.8	96.6

**Experiment Number:** C20605-02  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Mouse/B6C3F1/N

**PA41: Clinical Chemistry Summary**  
**Test Compound:** Gum Guggul Extract  
**CAS Number:** GUMGUGGULEXT

**Date Report Requested:** 05/09/2017  
**Time Report Requested:** 12:55:19  
**Lab:** NTP

---

**Male: Day 92 Males**

---

	<b>Phase Day</b>	<b>Treatment Groups</b>
		<b>250</b>
Glucose (mg/dL)	SD 92	179.7 ± 4.1 (15)
Percent of Control		107.6
Cholesterol (mg/dL)	SD 92	227.7 ± 5.7 (15)
Percent of Control		105.4
Triglyceride (mg/dL)	SD 92	139.9 ± 14.7 (15)
Percent of Control		88.6
Phospholipids (mg/dL)	SD 92	414.8 ± 11.8 (15)
Percent of Control		100.0

**Experiment Number:** C20605-02  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Mouse/B6C3F1/N

**PA41: Clinical Chemistry Summary**  
**Test Compound:** Gum Guggul Extract  
**CAS Number:** GUMGUGGULEXT

**Date Report Requested:** 05/09/2017  
**Time Report Requested:** 12:55:19  
**Lab:** NTP

---

**Female: Day 28 Females**

---

	Phase Day	Treatment Groups (mg/kg)				
		0	15.5	31	62.5	125
Glucose (mg/dL)	SD 28	158.4 ± 3.6 (10)	156.8 ± 2.4 (10)	162.7 ± 3.7 (10)	152.5 ± 5.0 (10)	148.5 ± 7.0 (10)
Percent of Control			99.0	102.7	96.3	93.8
Cholesterol (mg/dL)	SD 28	132.5 ± 2.1 (10)	133.2 ± 2.3 (10)	131.2 ± 2.8 (10)	140.8 ± 3.4 (10)	149.4 ± 5.8 (10)
Percent of Control			100.5	99.0	106.3	112.8
Triglyceride (mg/dL)	SD 28	112.8 ± 17.0 (10)	101.5 ± 6.5 (10)	114.4 ± 9.3 (10)	93.8 ± 8.6 (10)	97.9 ± 11.8 (10)
Percent of Control			90.0	101.4	83.2	86.8
Phospholipids (mg/dL)	SD 28	283.2 ± 4.5 (10)	279.9 ± 5.2 (10)	276.4 ± 3.1 (10)	283.6 ± 5.4 (10)	312.1 ± 11.0 (10)
Percent of Control			98.8	97.6	100.1	110.2

**Experiment Number:** C20605-02  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Mouse/B6C3F1/N

**PA41: Clinical Chemistry Summary**  
**Test Compound:** Gum Guggul Extract  
**CAS Number:** GUMGUGGULEXT

**Date Report Requested:** 05/09/2017  
**Time Report Requested:** 12:55:19  
**Lab:** NTP

---

**Female: Day 28 Females**

---

	<b>Phase Day</b>	<b>Treatment Groups</b>
		<b>250</b>
Glucose (mg/dL)	SD 28	162.8 ± 3.2 (10)
Percent of Control		102.8
Cholesterol (mg/dL)	SD 28	134.3 ± 2.0 (10)
Percent of Control		101.4
Triglyceride (mg/dL)	SD 28	97.0 ± 8.4 (10)
Percent of Control		86.0
Phospholipids (mg/dL)	SD 28	275.2 ± 6.0 (10)
Percent of Control		97.2

**Experiment Number:** C20605-02  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Mouse/B6C3F1/N

**PA41: Clinical Chemistry Summary**  
**Test Compound:** Gum Guggul Extract  
**CAS Number:** GUMGUGGULEXT

**Date Report Requested:** 05/09/2017  
**Time Report Requested:** 12:55:19  
**Lab:** NTP

**Female: Day 92 Females**

	Phase Day	Treatment Groups (mg/kg)				
		0	15.5	31	62.5	125
Glucose (mg/dL)	SD 92	157.9 ± 9.5 (15)	149.2 ± 5.5 (15)	153.3 ± 3.9 (15)	151.7 ± 6.5 (15)	154.9 ± 3.7 (15)
Percent of Control			94.5	97.1	96.0	98.1
Cholesterol (mg/dL)	SD 92	146.4 ± 2.7 (15) **	157.7 ± 7.3 (15)	158.5 ± 4.7 (15)	167.3 ± 6.8 (15) *	168.5 ± 4.4 (15) **
Percent of Control			107.7	108.2	114.3	115.1
Triglyceride (mg/dL)	SD 92	128.3 ± 9.6 (15)	129.9 ± 11.9 (15)	130.1 ± 10.4 (15)	143.1 ± 16.1 (15)	115.2 ± 9.2 (15)
Percent of Control			101.2	101.4	111.5	89.8
Phospholipids (mg/dL)	SD 92	310.9 ± 6.8 (15) **	339.6 ± 16.4 (15)	332.2 ± 10.1 (15)	341.2 ± 13.5 (15)	332.8 ± 8.4 (15)
Percent of Control			109.2	106.8	109.7	107.0



**Experiment Number:** C20605-02  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Mouse/B6C3F1/N

**PA41: Clinical Chemistry Summary**  
**Test Compound:** Gum Guggul Extract  
**CAS Number:** GUMGUGGULEXT

**Date Report Requested:** 05/09/2017  
**Time Report Requested:** 12:55:19  
**Lab:** NTP

---

**Female: Day 92 Females**

---

	<b>Phase Day</b>	<b>Treatment Groups</b>
		<b>250</b>
Glucose (mg/dL)	SD 92	159.9 ± 4.3 (15)
Percent of Control		101.2
Cholesterol (mg/dL)	SD 92	174.7 ± 5.2 (15) **
Percent of Control		119.3
Triglyceride (mg/dL)	SD 92	152.9 ± 8.2 (15)
Percent of Control		119.2
Phospholipids (mg/dL)	SD 92	369.6 ± 7.6 (15) **
Percent of Control		118.9

**Experiment Number:** C20605-02  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Mouse/B6C3F1/N

**PA41: Clinical Chemistry Summary**  
**Test Compound:** Gum Guggul Extract  
**CAS Number:** GUMGUGGULEXT

**Date Report Requested:** 05/09/2017  
**Time Report Requested:** 12:55:19  
**Lab:** NTP

#### LEGEND

---

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day, adults post-weaning

Values given as mean ± SEM (N) with Percent of Control calculated by (dosed group mean / control group mean) x 100

Clinical Chemistry for gestation phase includes pregnant females only

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (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 \*\***