

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

R07: Hormone Summary

Test Compound: Gum Guggul Extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017

Time Report Requested: 14:32:19

Lab: NTP

Experiment Number: C20605-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

R07: Hormone Summary

Test Compound: Gum Guggul Extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017

Time Report Requested: 14:32:19

Lab: NTP

Male: Day 28 Males

Terminal Sacrifice	Treatment Groups (mg/kg)				
	0	62.5	125	250	500
SD 28 - 28 Thyroid Stimulating Hormone (ng/mL)	10.980 ± 1.720 (10)	8.490 ± 1.162 (10)	13.450 ± 1.119 (10)	13.640 ± 1.425 (10)	10.340 ± 1.427 (10)
SD 28 - 28 Triiodothyronine (ng/dL)	121.800 ± 7.294 (10)	132.700 ± 8.061 (10)	103.500 ± 4.748 (10)	124.100 ± 5.889 (10)	116.500 ± 5.130 (10)
SD 28 - 28 Free Thyroxine (ng/dL)	2.390 ± 0.144 (10)	2.350 ± 0.104 (10)	2.200 ± 0.193 (10)	2.540 ± 0.107 (10)	2.350 ± 0.175 (10)
SD 28 - 28 Total Thyroxine (ug/dL)	5.930 ± 0.178 (10)	5.960 ± 0.117 (10)	5.650 ± 0.299 (10)	5.970 ± 0.197 (10)	5.660 ± 0.202 (10)

Experiment Number: C20605-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

R07: Hormone Summary

Test Compound: Gum Guggul Extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017

Time Report Requested: 14:32:19

Lab: NTP

Male: Day 28 Males

Terminal Sacrifice	Treatment Groups (mg/kg)
	1000
SD 28 - 28 Thyroid Stimulating Hormone (ng/mL)	12.530 ± 2.240 (10)
SD 28 - 28 Triiodothyronine (ng/dL)	119.900 ± 6.082 (10)
SD 28 - 28 Free Thyroxine (ng/dL)	2.560 ± 0.093 (10)
SD 28 - 28 Total Thyroxine (ug/dL)	6.000 ± 0.169 (10)

Experiment Number: C20605-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

R07: Hormone Summary

Test Compound: Gum Guggul Extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017

Time Report Requested: 14:32:19

Lab: NTP

Male: Day 92 Males

Terminal Sacrifice	Treatment Groups (mg/kg)				
	0	62.5	125	250	500
SD 92 - 92 Thyroid Stimulating Hormone (ng/mL)	7.110 ± 1.120 (10) *	7.060 ± 0.849 (10)	8.090 ± 1.305 (10)	11.240 ± 1.062 (10)	8.930 ± 1.572 (10)
SD 92 - 92 Triiodothyronine (ng/dL)	101.800 ± 5.356 (10)	77.100 ± 6.205 (10)	93.200 ± 9.616 (10)	84.900 ± 7.064 (10)	89.500 ± 10.409 (10)
SD 92 - 92 Free Thyroxine (ng/dL)	2.560 ± 0.069 (10)	2.030 ± 0.088 (10) **	2.610 ± 0.157 (10)	2.340 ± 0.173 (10)	2.230 ± 0.130 (10)
SD 92 - 92 Total Thyroxine (ug/dL)	5.350 ± 0.132 (10)	4.550 ± 0.113 (10) **	5.100 ± 0.201 (10)	4.810 ± 0.216 (10)	4.540 ± 0.171 (10) *

Experiment Number: C20605-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

R07: Hormone Summary

Test Compound: Gum Guggul Extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017

Time Report Requested: 14:32:19

Lab: NTP

Male: Day 92 Males

Terminal Sacrifice	Treatment Groups (mg/kg)
	1000

SD 92 - 92 Thyroid Stimulating Hormone (ng/mL) 11.080 ± 1.241 (10)

SD 92 - 92 Triiodothyronine (ng/dL) 84.000 ± 6.865 (10)

SD 92 - 92 Free Thyroxine (ng/dL) 2.430 ± 0.098 (10)

SD 92 - 92 Total Thyroxine (ug/dL) 5.120 ± 0.177 (10)

Experiment Number: C20605-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

R07: Hormone Summary
Test Compound: Gum Guggul Extract
CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017
Time Report Requested: 14:32:19
Lab: NTP

Female: Day 28 Females

Terminal Sacrifice	Treatment Groups (mg/kg)				
	0	62.5	125	250	500
SD 28 - 28 Thyroid Stimulating Hormone (ng/mL)	5.980 ± 0.755 (10) **	7.280 ± 1.040 (10)	6.980 ± 0.577 (10)	6.750 ± 0.862 (10)	9.310 ± 1.160 (10) *
SD 28 - 28 Triiodothyronine (ng/dL)	131.700 ± 11.525 (10)	139.400 ± 6.900 (10)	127.800 ± 9.145 (10)	136.700 ± 10.531 (10)	127.600 ± 9.305 (10)
SD 28 - 28 Free Thyroxine (ng/dL)	2.460 ± 0.220 (10)	2.030 ± 0.086 (10)	2.270 ± 0.167 (10)	2.650 ± 0.173 (10)	2.530 ± 0.233 (10)
SD 28 - 28 Total Thyroxine (ug/dL)	5.780 ± 0.383 (10)	5.310 ± 0.225 (10)	5.430 ± 0.344 (10)	5.750 ± 0.271 (10)	5.430 ± 0.333 (10)

Experiment Number: C20605-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

R07: Hormone Summary

Test Compound: Gum Guggul Extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017

Time Report Requested: 14:32:19

Lab: NTP

Female: Day 28 Females

Terminal Sacrifice		Treatment Groups
		(mg/kg)
		1000
SD 28 - 28	Thyroid Stimulating Hormone (ng/mL)	9.490 ± 0.648 (10) **
SD 28 - 28	Triiodothyronine (ng/dL)	131.600 ± 11.660 (10)
SD 28 - 28	Free Thyroxine (ng/dL)	2.600 ± 0.203 (10)
SD 28 - 28	Total Thyroxine (ug/dL)	5.440 ± 0.347 (10)

Experiment Number: C20605-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

R07: Hormone Summary

Test Compound: Gum Guggul Extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017

Time Report Requested: 14:32:19

Lab: NTP

Female: Day 92 Females

Terminal Sacrifice	Treatment Groups (mg/kg)				
	0	62.5	125	250	500
SD 92 - 92 Thyroid Stimulating Hormone (ng/mL)	8.856 ± 0.870 (9)	8.320 ± 0.853 (10)	7.678 ± 1.145 (9)	8.570 ± 0.717 (10)	10.456 ± 1.055 (9)
SD 92 - 92 Triiodothyronine (ng/dL)	113.000 ± 5.442 (9)	126.000 ± 8.623 (10)	121.111 ± 8.116 (9)	127.300 ± 6.605 (10)	138.889 ± 5.176 (9)
SD 92 - 92 Free Thyroxine (ng/dL)	1.789 ± 0.160 (9)	1.870 ± 0.104 (10)	1.900 ± 0.168 (9)	2.230 ± 0.183 (10)	2.111 ± 0.219 (9)
SD 92 - 92 Total Thyroxine (ug/dL)	4.711 ± 0.303 (9)	5.130 ± 0.188 (10)	4.667 ± 0.363 (9)	5.240 ± 0.308 (10)	4.633 ± 0.422 (9)

Experiment Number: C20605-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

R07: Hormone Summary
Test Compound: Gum Guggul Extract
CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017
Time Report Requested: 14:32:19
Lab: NTP

Female: Day 92 Females

Terminal Sacrifice	Treatment Groups (mg/kg)
	1000
SD 92 - 92 Thyroid Stimulating Hormone (ng/mL)	10.050 ± 0.937 (10)
SD 92 - 92 Triiodothyronine (ng/dL)	120.500 ± 4.752 (10)
SD 92 - 92 Free Thyroxine (ng/dL)	2.180 ± 0.156 (10)
SD 92 - 92 Total Thyroxine (ug/dL)	4.400 ± 0.245 (10)

Experiment Number: C20605-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

R07: Hormone Summary

Test Compound: Gum Guggul Extract

CAS Number: GUMGUGGULEXT

Date Report Requested: 05/01/2017

Time Report Requested: 14:32:19

Lab: NTP

LEGEND

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 $P \leq 0.01$

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

**** END OF REPORT ****