

Study Number: C20027-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Sprague Dawley

R07: Hormone Summary
Test Compound: 6:1 Fluorotelomer alcohol
CAS Number: 375-82-6

Date Report Requested: 12/21/2020
Time Report Requested: 10:43:06
Lab: Battelle

Study Number: C20027-01
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.1.4

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Male: Core Animals

| Terminal Sacrifice | | Treatment Groups (mg/kg) | | | |
|--------------------|-------------------------------------|--------------------------|--------------------|--------------------|--------------------|
| | | 0 | 0.15 | 0.5 | 1.4 |
| SD 5 - 5 | Thyroid Stimulating Hormone (ng/mL) | 4.500 ± 0.602 (9) | 3.240 ± 0.589 (5) | 3.980 ± 0.553 (5) | 4.575 ± 1.333 (4) |
| SD 5 - 5 | Triiodothyronine (ng/dL) | 49.244 ± 2.130 (9) ** | 51.720 ± 1.832 (5) | 56.580 ± 4.871 (5) | 47.650 ± 0.999 (4) |
| SD 5 - 5 | Free Thyroxine (ng/dL) | 6.761 ± 0.817 (9) ** | 5.864 ± 0.686 (5) | 6.680 ± 0.316 (5) | 5.755 ± 0.496 (4) |
| SD 5 - 5 | Total Thyroxine (ug/dL) | 2.71 ± 0.16 (9) ** | 2.47 ± 0.26 (5) | 2.57 ± 0.30 (5) | 2.52 ± 0.14 (4) |

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|--|--------------------------|-----------------------|-----------------------|-----------------------|
| | 4 | 12 | 37 | 111 |
| SD 5 - 5 Thyroid Stimulating Hormone (ng/mL) | 3.375 ± 0.994 (4) | 3.100 ± 0.762 (5) | 3.760 ± 0.804 (5) | 3.750 ± 0.448 (4) |
| SD 5 - 5 Triiodothyronine (ng/dL) | 44.975 ± 1.527 (4) | 34.920 ± 2.801 (5) ** | 31.960 ± 2.646 (5) ** | 33.025 ± 0.999 (4) ** |
| SD 5 - 5 Free Thyroxine (ng/dL) | 6.410 ± 0.393 (4) | 4.982 ± 0.435 (5) | 5.726 ± 0.661 (5) | 5.115 ± 0.301 (4) |
| SD 5 - 5 Total Thyroxine (ug/dL) | 1.58 ± 0.16 (4) ** | 1.01 ± 0.07 (5) ** | 0.93 ± 0.10 (5) ** | 0.66 ± 0.04 (4) ** |

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|--|--------------------------|------------|
| | 333 | 1000 |
| SD 5 - 5 Thyroid Stimulating Hormone (ng/mL) | 4.550 ± 0.581 (4) | 4.200 (1) |
| SD 5 - 5 Triiodothyronine (ng/dL) | 33.150 ± 4.547 (4) ** | 27.600 (1) |
| SD 5 - 5 Free Thyroxine (ng/dL) | 4.363 ± 0.424 (4) ** | 3.780 (1) |
| SD 5 - 5 Total Thyroxine (ug/dL) | 0.50 ± 0.02 (4) ** | 0.66 (1) |

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| Terminal Sacrifice | | Treatment Groups (mg/kg) | | | |
|--------------------|-------------------------------------|--------------------------|--------------------|--------------------|--------------------|
| | | 0 | 0.15 | 0.5 | 1.4 |
| SD 5 - 5 | Thyroid Stimulating Hormone (ng/mL) | 3.122 ± 0.371 (9) ** | 3.400 ± 1.013 (4) | 2.800 ± 0.551 (3) | 2.425 ± 0.375 (4) |
| SD 5 - 5 | Triiodothyronine (ng/dL) | 66.000 ± 3.455 (9) ** | 58.825 ± 1.727 (4) | 66.900 ± 4.891 (3) | 59.825 ± 4.950 (4) |
| SD 5 - 5 | Free Thyroxine (ng/dL) | 6.837 ± 0.779 (9) | 6.455 ± 1.113 (4) | 5.577 ± 0.211 (3) | 6.770 ± 0.295 (4) |
| SD 5 - 5 | Total Thyroxine (ug/dL) | 3.12 ± 0.29 (9) ** | 2.83 ± 0.43 (4) | 2.31 ± 0.08 (3) | 2.64 ± 0.43 (4) |

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|---|--------------------------|--------------------|--------------------|--------------------|
| | 4 | 12 | 37 | 111 |
| SD 5 - 5 Thyroid Stimulating Hormone (ng/mL) | 3.020 ± 0.475 (5) | 3.400 ± 0.826 (4) | 2.540 ± 0.367 (5) | 4.480 ± 0.388 (5) |
| SD 5 - 5 Triiodothyronine (ng/dL) | 61.540 ± 4.315 (5) | 62.700 ± 4.457 (4) | 63.740 ± 2.761 (5) | 59.040 ± 2.090 (5) |
| SD 5 - 5 Free Thyroxine (ng/dL) | 5.754 ± 0.331 (5) | 6.668 ± 1.028 (4) | 4.204 ± 0.469 (5) | 5.388 ± 0.498 (5) |
| SD 5 - 5 Total Thyroxine (ug/dL) | 2.76 ± 0.11 (5) | 2.79 ± 0.16 (4) | 2.31 ± 0.22 (5) | 2.64 ± 0.26 (5) |

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|--------------------|-------------------------------------|--------------------------|-----------------------|
| | | 333 | 1000 |
| SD 5 - 5 | Thyroid Stimulating Hormone (ng/mL) | 3.775 ± 1.150 (4) | 6.900 ± 0.933 (5) ** |
| SD 5 - 5 | Triiodothyronine (ng/dL) | 42.425 ± 2.062 (4) ** | 31.060 ± 1.857 (5) ** |
| SD 5 - 5 | Free Thyroxine (ng/dL) | 6.085 ± 0.796 (4) | 5.990 ± 0.518 (5) |
| SD 5 - 5 | Total Thyroxine (ug/dL) | 1.20 ± 0.18 (4) ** | 0.86 ± 0.14 (5) ** |

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LEGEND

Data are displayed as mean \pm SEM (N) unless otherwise noted.

SD – Study Day

Statistical analysis were 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 ****