

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

**PA41: Clinical Chemistry Summary**  
**Test Compound:** 6:1 Fluorotelomer alcohol  
**CAS Number:** 375-82-6

**Date Report Requested:** 12/07/2020  
**Time Report Requested:** 15:54:04  
**Lab:** Battelle

**Study Number:** C20027-01  
**Study Gender:** Both  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.1.3

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Male: Core Animals

	Phase Day	Treatment Groups (mg/kg)				
		0	0.15	0.5	1.4	4
Urea Nitrogen (mg/dL)	SD 5	16.1 ± 0.3 (10)	16.2 ± 0.5 (5)	14.8 ± 0.8 (5)	15.6 ± 1.1 (5)	15.8 ± 1.4 (4)
Percent of Control			100.6	91.9	96.9	97.8
Creatinine (mg/dL)	SD 5	0.41 ± 0.01 (10) **	0.42 ± 0.02 (5)	0.42 ± 0.02 (5)	0.42 ± 0.02 (5)	0.43 ± 0.03 (4)
Percent of Control			102.4	102.4	102.4	103.7
Glucose (mg/dL)	SD 5	262.1 ± 13.8 (10)	248.6 ± 10.6 (5)	248.6 ± 16.2 (5)	244.6 ± 27.1 (5)	218.5 ± 27.4 (4)
Percent of Control			94.8	94.8	93.3	83.4
Total Protein (g/dL)	SD 5	6.41 ± 0.05 (10)	6.42 ± 0.10 (5)	6.56 ± 0.14 (5)	6.82 ± 0.18 (5)	6.60 ± 0.13 (4)
Percent of Control			100.2	102.3	106.4	103.0
Globulin (g/dL)	SD 5	1.95 ± 0.03 (10) **	1.96 ± 0.05 (5)	2.10 ± 0.06 (5)	2.28 ± 0.16 (5)	2.03 ± 0.09 (4)
Percent of Control			100.5	107.7	116.9	103.8
A/G Ratio	SD 5	2.29 ± 0.06 (10) **	2.28 ± 0.06 (5)	2.13 ± 0.04 (5)	2.03 ± 0.13 (5)	2.27 ± 0.08 (4)
Percent of Control			99.4	92.8	88.4	98.9
Albumin (g/dL)	SD 5	4.46 ± 0.06 (10) **	4.46 ± 0.07 (5)	4.46 ± 0.08 (5)	4.54 ± 0.06 (5)	4.58 ± 0.05 (4)
Percent of Control			100.0	100.0	101.8	102.6
Cholesterol (mg/dL)	SD 5	106.6 ± 3.8 (10) **	107.6 ± 1.8 (5)	103.2 ± 2.2 (5)	114.0 ± 15.8 (5)	92.8 ± 5.4 (4)
Percent of Control			100.9	96.8	106.9	87.0
Triglyceride (mg/dL)	SD 5	99.9 ± 9.9 (10) **	85.6 ± 9.9 (5)	107.4 ± 19.0 (5)	118.4 ± 35.2 (5)	82.0 ± 3.0 (4)
Percent of Control			85.7	107.5	118.5	82.1
Alanine Aminotransferase (IU/L)	SD 5	61.2 ± 3.6 (10) **	64.0 ± 5.2 (5)	55.0 ± 2.6 (5)	58.8 ± 3.2 (5)	70.5 ± 4.3 (4)
Percent of Control			104.6	89.9	96.1	115.2
Alkaline Phosphatase (IU/L)	SD 5	302.2 ± 19.9 (9) **	315.8 ± 18.4 (4)	277.2 ± 11.1 (5)	322.8 ± 18.7 (5)	346.0 ± 15.5 (4)
Percent of Control			104.5	91.7	106.8	114.5

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Male: Core Animals

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	Phase Day	Treatment Groups (mg/kg)				
		0	0.15	0.5	1.4	4
Aspartate Aminotransferase (U/L)	SD 5	80.10 ± 4.72 (10) **	83.40 ± 4.86 (5)	72.20 ± 3.09 (5)	78.40 ± 3.36 (5)	82.50 ± 4.56 (4)
Percent of Control			104.1	90.1	97.9	103.0
Creatine Kinase (IU/L)	SD 5	234.7 ± 41.0 (10)	173.6 ± 11.6 (5)	153.4 ± 10.5 (5)	181.4 ± 12.8 (5)	172.8 ± 4.6 (4)
Percent of Control			74.0	65.4	77.3	73.6
Sorbitol Dehydrogenase (IU/L)	SD 5	14.8 ± 1.7 (10) *	20.5 ± 4.9 (5)	11.6 ± 1.6 (5)	14.6 ± 3.1 (5)	10.1 ± 1.6 (4)
Percent of Control			138.9	78.5	99.2	68.3
Bile salt/acids (umol/L)	SD 5	38.7 ± 6.8 (10)	37.6 ± 7.2 (5)	28.2 ± 3.8 (5)	30.4 ± 3.8 (5)	29.5 ± 1.8 (4)
Percent of Control			97.2	72.9	78.6	76.2

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## Male: Core Animals

	Phase Day	Treatment Groups (mg/kg)				
		12	37	111	333	1000
Urea Nitrogen (mg/dL)	SD 5	17.0 ± 0.9 (5)	17.6 ± 0.5 (5)	16.2 ± 0.6 (5)	17.8 ± 3.9 (5)	26.0 (1)
Percent of Control		105.6	109.3	100.6	110.6	161.5
Creatinine (mg/dL)	SD 5	0.38 ± 0.02 (5)	0.44 ± 0.02 (5)	0.46 ± 0.02 (5)	0.50 ± 0.03 (5) **	0.50 (1)
Percent of Control		92.7	107.3	112.2	122.0	122.0
Glucose (mg/dL)	SD 5	217.6 ± 22.1 (5)	245.4 ± 30.2 (5)	277.6 ± 37.0 (5)	264.0 ± 25.3 (5)	175.0 (1)
Percent of Control		83.0	93.6	105.9	100.7	66.8
Total Protein (g/dL)	SD 5	6.26 ± 0.04 (5)	6.52 ± 0.11 (5)	6.18 ± 0.15 (5)	6.20 ± 0.24 (5)	5.90 (1)
Percent of Control		97.7	101.7	96.4	96.7	92.0
Globulin (g/dL)	SD 5	1.70 ± 0.03 (5) *	1.76 ± 0.05 (5) *	1.40 ± 0.10 (5) **	1.34 ± 0.14 (5) **	1.20 (1)
Percent of Control		87.2	90.3	71.8	68.7	61.5
A/G Ratio	SD 5	2.69 ± 0.07 (5) *	2.71 ± 0.06 (5) *	3.50 ± 0.31 (5) **	3.75 ± 0.31 (5) **	3.92 (1)
Percent of Control		117.2	118.2	152.8	163.6	170.8
Albumin (g/dL)	SD 5	4.56 ± 0.05 (5)	4.76 ± 0.07 (5) **	4.78 ± 0.07 (5) **	4.86 ± 0.11 (5) **	4.70 (1)
Percent of Control		102.2	106.7	107.2	109.0	105.4
Cholesterol (mg/dL)	SD 5	89.6 ± 6.9 (5)	84.8 ± 4.2 (5) **	75.6 ± 2.8 (5) **	69.2 ± 4.9 (5) **	50.0 (1)
Percent of Control		84.1	79.5	70.9	64.9	46.9
Triglyceride (mg/dL)	SD 5	48.8 ± 8.3 (5) **	66.8 ± 14.0 (5) *	53.0 ± 2.9 (5) **	58.6 ± 14.8 (5) *	111.0 (1)
Percent of Control		48.8	66.9	53.1	58.7	111.1
Alanine Aminotransferase (IU/L)	SD 5	57.4 ± 3.7 (5)	72.2 ± 3.1 (5) *	110.2 ± 19.6 (5) *	209.2 ± 67.2 (5) **	134.0 (1)
Percent of Control		93.8	118.0	180.1	341.8	219.0
Alkaline Phosphatase (IU/L)	SD 5	325.0 ± 16.9 (5)	335.8 ± 23.5 (5)	357.2 ± 18.3 (5)	527.8 ± 34.1 (5) **	466.0 (1)
Percent of Control		107.5	111.1	118.2	174.6	154.2

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Male: Core Animals

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	Phase Day	Treatment Groups (mg/kg)				
		12	37	111	333	1000
Aspartate Aminotransferase (U/L)	SD 5	74.20 ± 3.73 (5)	91.00 ± 4.71 (5)	128.40 ± 17.32 (5) **	195.00 ± 54.03 (5) **	154.00 (1)
Percent of Control		92.6	113.6	160.3	243.4	192.3
Creatine Kinase (IU/L)	SD 5	168.8 ± 13.8 (5)	228.6 ± 12.8 (5)	235.4 ± 32.6 (5)	214.0 ± 27.4 (5)	174.0 (1)
Percent of Control		71.9	97.4	100.3	91.2	74.1
Sorbitol Dehydrogenase (IU/L)	SD 5	10.5 ± 0.6 (5)	19.6 ± 3.5 (5)	46.1 ± 17.1 (5)	56.3 ± 21.9 (5)	12.6 (1)
Percent of Control		71.4	132.9	312.3	381.7	85.4
Bile salt/acids (umol/L)	SD 5	24.6 ± 2.5 (5)	25.4 ± 3.7 (5)	31.4 ± 4.7 (5)	54.0 ± 9.4 (5)	54.0 (1)
Percent of Control		63.6	65.6	81.1	139.5	139.5

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Female: Core Animals

	Phase Day	Treatment Groups (mg/kg)				
		0	0.15	0.5	1.4	4
Urea Nitrogen (mg/dL)	SD 5	16.1 ± 0.8 (10)	14.8 ± 0.2 (5)	17.6 ± 0.7 (5)	16.2 ± 1.2 (5)	15.2 ± 1.6 (5)
Percent of Control			91.9	109.3	100.6	94.4
Creatinine (mg/dL)	SD 5	0.41 ± 0.02 (10) *	0.40 ± 0.00 (5)	0.44 ± 0.02 (5)	0.42 ± 0.02 (5)	0.44 ± 0.02 (5)
Percent of Control			97.6	107.3	102.4	107.3
Glucose (mg/dL)	SD 5	210.1 ± 12.5 (10)	220.4 ± 26.2 (5)	236.0 ± 23.7 (5)	233.6 ± 19.4 (5)	244.8 ± 14.7 (5)
Percent of Control			104.9	112.3	111.2	116.5
Total Protein (g/dL)	SD 5	6.39 ± 0.11 (10)	6.28 ± 0.09 (5)	6.34 ± 0.09 (5)	6.22 ± 0.12 (5)	6.28 ± 0.04 (5)
Percent of Control			98.3	99.2	97.3	98.3
Globulin (g/dL)	SD 5	1.70 ± 0.06 (10)	1.72 ± 0.07 (5)	1.76 ± 0.07 (5)	1.68 ± 0.05 (5)	1.62 ± 0.04 (5)
Percent of Control			101.2	103.5	98.8	95.3
A/G Ratio	SD 5	2.79 ± 0.09 (10)	2.67 ± 0.14 (5)	2.62 ± 0.13 (5)	2.71 ± 0.09 (5)	2.88 ± 0.08 (5)
Percent of Control			96.0	94.2	97.3	103.5
Albumin (g/dL)	SD 5	4.69 ± 0.07 (10)	4.56 ± 0.07 (5)	4.58 ± 0.07 (5)	4.54 ± 0.09 (5)	4.66 ± 0.04 (5)
Percent of Control			97.2	97.7	96.8	99.4
Cholesterol (mg/dL)	SD 5	95.6 ± 4.9 (10) **	100.6 ± 7.7 (5)	104.8 ± 8.0 (5)	93.6 ± 11.9 (5)	82.2 ± 3.8 (5)
Percent of Control			105.2	109.6	97.9	86.0
Triglyceride (mg/dL)	SD 5	70.9 ± 10.4 (10) *	68.6 ± 18.8 (5)	45.4 ± 6.3 (5)	40.6 ± 7.7 (5)	34.6 ± 9.3 (5)
Percent of Control			96.8	64.0	57.3	48.8
Alanine Aminotransferase (IU/L)	SD 5	50.8 ± 2.3 (10)	52.6 ± 3.9 (5)	45.4 ± 2.5 (5)	52.4 ± 1.9 (5)	52.2 ± 3.9 (5)
Percent of Control			103.5	89.4	103.1	102.8
Alkaline Phosphatase (IU/L)	SD 5	236.9 ± 10.4 (10)	255.0 ± 14.6 (5)	236.6 ± 17.1 (5)	256.4 ± 13.3 (5)	222.6 ± 3.6 (5)
Percent of Control			107.6	99.9	108.2	94.0

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	Phase Day	Treatment Groups (mg/kg)				
		0	0.15	0.5	1.4	4
Aspartate Aminotransferase (U/L) Percent of Control	SD 5	72.80 ± 1.78 (10) **	73.60 ± 2.44 (5) 101.1	71.80 ± 2.03 (5) 98.6	76.40 ± 3.53 (5) 104.9	77.00 ± 2.59 (5) 105.8
Creatine Kinase (IU/L) Percent of Control	SD 5	141.3 ± 9.5 (10)	228.0 ± 29.9 (5) 161.4	315.6 ± 152.4 (5) 223.4	135.8 ± 18.1 (5) 96.1	173.0 ± 16.5 (5) 122.4
Sorbitol Dehydrogenase (IU/L) Percent of Control	SD 5	6.9 ± 0.7 (9)	9.4 ± 0.8 (5) 135.9	7.9 ± 1.0 (5) 114.4	8.9 ± 1.3 (5) 128.6	10.6 ± 0.9 (5) 154.5
Bile salt/acids (umol/L) Percent of Control	SD 5	15.7 ± 1.6 (10) *	26.2 ± 3.5 (5) 166.9	16.4 ± 2.4 (5) 104.5	21.2 ± 4.9 (5) 135.0	19.8 ± 3.6 (5) 126.1

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Female: Core Animals

	Phase Day	Treatment Groups (mg/kg)				
		12	37	111	333	1000
Urea Nitrogen (mg/dL)	SD 5	16.8 ± 0.9 (5)	15.2 ± 1.1 (5)	15.6 ± 0.5 (5)	15.0 ± 1.4 (5)	14.0 ± 1.3 (5)
Percent of Control		104.3	94.4	96.9	93.2	87.0
Creatinine (mg/dL)	SD 5	0.42 ± 0.02 (5)	0.48 ± 0.02 (5)	0.40 ± 0.00 (5)	0.46 ± 0.02 (5)	0.46 ± 0.02 (5)
Percent of Control		102.4	117.1	97.6	112.2	112.2
Glucose (mg/dL)	SD 5	257.2 ± 16.4 (5)	276.4 ± 19.4 (5)	224.8 ± 8.9 (5)	220.4 ± 20.8 (5)	208.0 ± 23.1 (5)
Percent of Control		122.4	131.6	107.0	104.9	99.0
Total Protein (g/dL)	SD 5	6.12 ± 0.07 (5)	6.20 ± 0.07 (5)	6.38 ± 0.07 (5)	6.32 ± 0.12 (5)	6.54 ± 0.25 (5)
Percent of Control		95.8	97.0	99.8	98.9	102.3
Globulin (g/dL)	SD 5	1.56 ± 0.02 (5)	1.64 ± 0.04 (5)	1.76 ± 0.05 (5)	1.64 ± 0.07 (5)	1.92 ± 0.29 (5)
Percent of Control		91.8	96.5	103.5	96.5	112.9
A/G Ratio	SD 5	2.93 ± 0.07 (5)	2.79 ± 0.06 (5)	2.63 ± 0.07 (5)	2.88 ± 0.14 (5)	2.59 ± 0.31 (5)
Percent of Control		105.1	100.0	94.5	103.3	93.0
Albumin (g/dL)	SD 5	4.56 ± 0.07 (5)	4.56 ± 0.04 (5)	4.62 ± 0.04 (5)	4.68 ± 0.09 (5)	4.62 ± 0.09 (5)
Percent of Control		97.2	97.2	98.5	99.8	98.5
Cholesterol (mg/dL)	SD 5	84.8 ± 2.2 (5)	90.4 ± 2.7 (5)	92.8 ± 3.1 (5)	38.0 ± 4.5 (5) **	54.0 ± 6.8 (5) **
Percent of Control		88.7	94.6	97.1	39.7	56.5
Triglyceride (mg/dL)	SD 5	39.4 ± 5.2 (5)	47.0 ± 10.5 (5)	53.0 ± 7.7 (5)	111.0 ± 7.1 (5)	143.2 ± 25.2 (5)
Percent of Control		55.6	66.3	74.8	156.6	202.0
Alanine Aminotransferase (IU/L)	SD 5	49.8 ± 3.8 (5)	51.4 ± 3.5 (5)	46.4 ± 1.2 (5)	54.4 ± 2.9 (5)	62.0 ± 1.8 (5)
Percent of Control		98.0	101.2	91.3	107.1	122.0
Alkaline Phosphatase (IU/L)	SD 5	225.8 ± 13.8 (5)	235.0 ± 11.7 (5)	209.2 ± 14.7 (5)	244.2 ± 18.5 (5)	230.0 ± 22.5 (5)
Percent of Control		95.3	99.2	88.3	103.1	97.1



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Female: Core Animals

	Phase Day	Treatment Groups (mg/kg)				
		12	37	111	333	1000
Aspartate Aminotransferase (U/L)	SD 5	75.60 ± 2.48 (5)	79.20 ± 2.97 (5)	74.00 ± 3.70 (5)	76.00 ± 2.74 (5)	103.60 ± 19.79 (5) **
Percent of Control		103.8	108.8	101.6	104.4	142.3
Creatine Kinase (IU/L)	SD 5	204.2 ± 67.6 (5)	229.0 ± 26.6 (5)	175.8 ± 29.3 (5)	164.8 ± 24.2 (5)	182.6 ± 23.9 (5)
Percent of Control		144.5	162.1	124.4	116.6	129.2
Sorbitol Dehydrogenase (IU/L)	SD 5	11.7 ± 3.1 (5)	9.1 ± 0.7 (5)	9.9 ± 1.5 (5)	10.3 ± 1.4 (5)	9.0 ± 2.4 (4)
Percent of Control		170.4	131.5	144.3	149.2	130.6
Bile salt/acids (umol/L)	SD 5	17.6 ± 3.8 (5)	27.0 ± 6.4 (5)	21.8 ± 4.9 (5)	30.0 ± 5.5 (5)	24.8 ± 7.3 (5)
Percent of Control		112.1	172.0	138.9	191.1	158.0

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#### LEGEND

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

SD – Study Day

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  $P \leq 0.01$

One value for Alkaline Phosphatase in the male 0 mg/kg group, one value for Alkaline Phosphatase in the male 0.15 mg/kg group, and one value for Sorbitol Dehydrogenase in the female 1000 mg/kg group were excluded due to sample and/or analysis problems.

One value for Sorbitol Dehydrogenase in the female 0 mg/kg group was excluded because it was an outlier.

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