

Experiment Number: C20105-56

Test Type: TOX

Route: Whole Body Exposure

Species/Strain: Rat/Harlan Sprague Dawley

PA41: Clinical Chemistry Summary

Test Compound: Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 02/17/2017

Time Report Requested: 12:11:45

Lab: NTP

C Number:

C20105-56

Cage Range:

All

Date Range:

All

Reasons For Removal:

All

Removal Date Range:

All

Treatment Groups:

All

Study Gender:

Both

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Male

Treatment Groups

	Phase Day	0.0 W/kg	1.5 W/kg	3.0 W/kg	6.0 W/kg
Urea Nitrogen (mg/dL)	SD 94	18.1 ± 0.6 (10)	17.2 ± 0.4 (10)	17.5 ± 0.4 (10)	18.5 ± 0.6 (10)
Percent of Control			95	97	102
Creatinine (mg/dL)	SD 94	0.50 ± 0.01 (10) **	0.50 ± 0.01 (10)	0.54 ± 0.02 (10)	0.59 ± 0.02 (10) **
Percent of Control			101	108	119
Glucose (mg/dL)	SD 94	134.7 ± 5.5 (10)	132.8 ± 4.7 (10)	148.6 ± 8.1 (10)	154.4 ± 10.7 (10)
Percent of Control			99	110	115
Total Protein (g/dL)	SD 94	6.14 ± 0.05 (10)	6.14 ± 0.04 (10)	6.26 ± 0.06 (10)	6.24 ± 0.07 (10)
Percent of Control			100	102	102
Albumin (g/dL)	SD 94	3.61 ± 0.03 (10) *	3.62 ± 0.03 (10)	3.64 ± 0.02 (10)	3.71 ± 0.04 (10)
Percent of Control			100	101	103
Cholesterol (mg/dL)	SD 94	92.1 ± 2.4 (10)	89.1 ± 1.9 (10)	92.4 ± 2.8 (10)	88.2 ± 2.9 (10)
Percent of Control			97	100	96
Triglyceride (mg/dL)	SD 94	87.9 ± 6.1 (10)	83.6 ± 7.0 (10)	86.5 ± 5.4 (10)	72.4 ± 4.6 (10)
Percent of Control			95	98	82
Alanine Aminotransferase (IU/L)	SD 94	54.70 ± 2.08 (10)	48.00 ± 1.61 (10)	51.60 ± 3.49 (10)	50.20 ± 2.32 (10)
Percent of Control			88	94	92
Alkaline Phosphatase (IU/L)	SD 94	284.4 ± 12.0 (10)	286.6 ± 15.9 (10)	299.7 ± 14.8 (10)	308.9 ± 25.8 (10)
Percent of Control			101	105	109
Creatine Kinase (IU/L)	SD 94	276.5 ± 82.5 (10)	264.5 ± 31.1 (10)	387.0 ± 109.0 (10)	308.5 ± 64.3 (10)
Percent of Control			96	140	112
Sorbitol Dehydrogenase (IU/L)	SD 94	33.3 ± 0.7 (10)	30.7 ± 0.6 (10)	33.1 ± 2.3 (10)	34.8 ± 1.4 (10)
Percent of Control			92	99	104

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Treatment Groups

	Phase Day	0.0 W/kg	1.5 W/kg	3.0 W/kg	6.0 W/kg
Bile salt/acids ($\mu\text{mol/L}$)	SD 94	27.3 \pm 3.8 (10)	36.3 \pm 4.5 (10)	33.7 \pm 5.0 (10)	30.1 \pm 5.4 (10)
Percent of Control			133	124	110

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	Phase Day	Treatment Groups			
		0.0 W/kg	1.5 W/kg	3.0 W/kg	6.0 W/kg
Urea Nitrogen (mg/dL)	SD 93	17.5 ± 0.9 (10)	17.9 ± 0.5 (10)	17.0 ± 0.6 (10)	16.7 ± 0.5 (10)
Percent of Control			102	97	95
Creatinine (mg/dL)	SD 93	0.57 ± 0.03 (10)	0.58 ± 0.03 (10)	0.56 ± 0.01 (10)	0.59 ± 0.02 (10)
Percent of Control			101	98	103
Glucose (mg/dL)	SD 93	150.8 ± 9.1 (10)	145.2 ± 8.5 (10)	139.9 ± 5.1 (10)	140.8 ± 6.5 (10)
Percent of Control			96	93	93
Total Protein (g/dL)	SD 93	6.19 ± 0.05 (10)	6.17 ± 0.07 (10)	6.27 ± 0.06 (10)	6.19 ± 0.07 (10)
Percent of Control			100	101	100
Albumin (g/dL)	SD 93	3.79 ± 0.03 (10)	3.80 ± 0.03 (10)	3.90 ± 0.04 (10)	3.80 ± 0.03 (10)
Percent of Control			100	103	100
Cholesterol (mg/dL)	SD 93	78.4 ± 3.8 (10)	70.8 ± 2.1 (10)	72.9 ± 3.2 (10)	71.3 ± 2.3 (10)
Percent of Control			90	93	91
Triglyceride (mg/dL)	SD 93	70.1 ± 8.9 (10)	60.9 ± 5.1 (10)	53.5 ± 2.6 (10)	70.4 ± 7.5 (10)
Percent of Control			87	76	100
Alanine Aminotransferase (IU/L)	SD 93	48.30 ± 2.41 (10)	43.10 ± 1.96 (10)	43.90 ± 2.03 (10)	45.10 ± 1.23 (10)
Percent of Control			89	91	93
Alkaline Phosphatase (IU/L)	SD 93	277.1 ± 23.9 (10)	247.7 ± 16.4 (10)	257.1 ± 18.2 (10)	251.6 ± 17.4 (10)
Percent of Control			89	93	91
Creatine Kinase (IU/L)	SD 93	209.3 ± 34.8 (10)	211.9 ± 35.9 (10)	216.7 ± 40.8 (10)	418.4 ± 97.3 (10)
Percent of Control			101	104	200
Sorbitol Dehydrogenase (IU/L)	SD 93	31.3 ± 4.2 (10)	31.4 ± 4.3 (10)	27.8 ± 3.8 (10)	33.8 ± 5.0 (10)
Percent of Control			100	89	108

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Treatment Groups

	Phase Day	0.0 W/kg	1.5 W/kg	3.0 W/kg	6.0 W/kg
Bile salt/acids ($\mu\text{mol/L}$)	SD 93	33.7 \pm 6.1 (10)	36.8 \pm 5.1 (10)	32.7 \pm 5.8 (10)	29.9 \pm 5.6 (10)
Percent of Control			109	97	89

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LEGEND

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

Values given as mean \pm 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

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

**** END OF REPORT ****