

Experiment Number: C20105-78

Test Type: TOX

Route: Whole Body Exposure

Species/Strain: Mouse/B6C3F1/N

PA43: Hematology Summary

Test Compound: Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 02/17/2017

Time Report Requested: 07:22:53

Lab: NTP

C Number: C20105-78

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	2.5 W/kg	5.0 W/kg	10.0 W/kg
Hematocrit (%)	SD 93	54.8 ± 0.5 (10)	54.1 ± 0.9 (10)	54.2 ± 0.3 (10)	53.5 ± 0.5 (10)
Percent of Control			99	99	98
Manual Hematocrit (%)	SD 93	50 ± 0 (10)	49 ± 1 (9)	49 ± 0 (10)	49 ± 0 (10)
Percent of Control			99	98	98
Hemoglobin (g/dL)	SD 93	16.1 ± 0.1 (10)	16.0 ± 0.2 (10)	16.0 ± 0.1 (10)	15.9 ± 0.2 (10)
Percent of Control			100	99	99
Red Blood Cells (10 ⁶ /uL)	SD 93	10.87 ± 0.09 (10)	10.66 ± 0.15 (10)	10.76 ± 0.06 (10)	10.61 ± 0.10 (10)
Percent of Control			98	99	98
Reticulocytes (10 ³ /uL)	SD 93	386.3 ± 8.2 (10)	363.6 ± 9.3 (10)	358.5 ± 7.5 (10)	357.9 ± 7.9 (10)
Percent of Control			94	93	93
Nucleated Red Blood Cells (/100 WBC)	SD 93	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)
Percent of Control					
Mean Cell Volume (fL)	SD 93	50.4 ± 0.1 (10)	50.8 ± 0.2 (10)	50.4 ± 0.2 (10)	50.4 ± 0.2 (10)
Percent of Control			101	100	100
Mean Cell Hemoglobin (pg)	SD 93	14.8 ± 0.0 (10)	15.0 ± 0.1 (10)	14.9 ± 0.1 (10)	15.0 ± 0.1 (10)
Percent of Control			101	100	101
Mean Cell Hemoglobin Concentration (g/dL)	SD 93	29.4 ± 0.1 (10)	29.5 ± 0.1 (10)	29.5 ± 0.1 (10)	29.7 ± 0.1 (10)
Percent of Control			101	100	101
Platelets (10 ³ /uL)	SD 93	1115 ± 31 (10)	1065 ± 30 (10)	1111 ± 35 (10)	1116 ± 32 (10)
Percent of Control			96	100	100
White Blood Cells (10 ³ /uL)	SD 93	5.80 ± 0.50 (10)	5.11 ± 0.53 (10)	5.52 ± 0.43 (10)	6.30 ± 0.47 (10)
Percent of Control			88	95	109

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Treatment Groups

	Phase Day	0.0 W/kg	2.5 W/kg	5.0 W/kg	10.0 W/kg
Neutrophils (10 ³ /uL) Percent of Control	SD 93	0.68 ± 0.06 (10)	0.58 ± 0.07 (10) 85	0.62 ± 0.04 (10) 90	0.67 ± 0.05 (10) 99
Lymphocytes (10 ³ /uL) Percent of Control	SD 93	4.82 ± 0.41 (10)	4.28 ± 0.44 (10) 89	4.63 ± 0.37 (10) 96	5.29 ± 0.40 (10) 110
Monocytes (10 ³ /uL) Percent of Control	SD 93	0.09 ± 0.01 (10)	0.09 ± 0.01 (10) 103	0.09 ± 0.01 (10) 107	0.11 ± 0.01 (10) 119
Basophils (10 ³ /uL) Percent of Control	SD 93	0.04 ± 0.01 (10)	0.04 ± 0.01 (10) 95	0.04 ± 0.01 (10) 95	0.05 ± 0.01 (10) 143
Eosinophils (10 ³ /uL) Percent of Control	SD 93	0.09 ± 0.01 (10)	0.07 ± 0.01 (10) 71	0.08 ± 0.01 (10) 87	0.10 ± 0.01 (10) 105
Large Unstained Cells (10 ³ /uL) Percent of Control	SD 93	0.07 ± 0.01 (10)	0.06 ± 0.01 (10) 89	0.07 ± 0.01 (10) 97	0.07 ± 0.01 (10) 101

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Female

	Phase Day	Treatment Groups			
		0.0 W/kg	2.5 W/kg	5.0 W/kg	10.0 W/kg
Hematocrit (%)	SD 92	54.9 ± 2.0 (10)	55.7 ± 0.9 (10)	55.6 ± 0.5 (10)	55.2 ± 0.4 (10)
Percent of Control			102	101	101
Manual Hematocrit (%)	SD 92	50 ± 2 (10)	52 ± 1 (10)	52 ± 1 (10)	51 ± 0 (10)
Percent of Control			103	104	101
Hemoglobin (g/dL)	SD 92	16.4 ± 0.5 (10)	16.8 ± 0.3 (10)	16.8 ± 0.2 (10)	16.5 ± 0.1 (10)
Percent of Control			103	103	101
Red Blood Cells (10 ⁶ /uL)	SD 92	10.77 ± 0.34 (10)	10.88 ± 0.16 (10)	10.90 ± 0.11 (10)	10.75 ± 0.07 (10)
Percent of Control			101	101	100
Reticulocytes (10 ³ /uL)	SD 92	346.8 ± 17.4 (10)	365.5 ± 20.0 (10)	328.6 ± 13.5 (10)	378.6 ± 15.5 (10)
Percent of Control			105	95	109
Nucleated Red Blood Cells (/100 WBC)	SD 92	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)
Percent of Control					
Mean Cell Volume (fL)	SD 92	50.9 ± 0.3 (10)	51.2 ± 0.2 (10)	51.1 ± 0.2 (10)	51.4 ± 0.2 (10)
Percent of Control			101	100	101
Mean Cell Hemoglobin (pg)	SD 92	15.2 ± 0.1 (10)	15.4 ± 0.1 (10)	15.4 ± 0.1 (10)	15.3 ± 0.1 (10)
Percent of Control			101	101	101
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	29.9 ± 0.3 (10)	30.1 ± 0.1 (10)	30.2 ± 0.1 (10)	29.8 ± 0.1 (10)
Percent of Control			101	101	100
Platelets (10 ³ /uL)	SD 92	758 ± 65 (10)	714 ± 37 (10)	717 ± 52 (10)	782 ± 29 (10)
Percent of Control			94	95	103
White Blood Cells (10 ³ /uL)	SD 92	5.15 ± 0.57 (10)	5.06 ± 0.60 (10)	5.07 ± 0.57 (10)	4.88 ± 0.58 (10)
Percent of Control			98	98	95

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Treatment Groups

	Phase Day	0.0 W/kg	2.5 W/kg	5.0 W/kg	10.0 W/kg
Neutrophils (10 ³ /uL) Percent of Control	SD 92	0.60 ± 0.08 (10)	0.53 ± 0.07 (10) 88	0.44 ± 0.07 (10) 74	0.58 ± 0.06 (10) 96
Lymphocytes (10 ³ /uL) Percent of Control	SD 92	4.35 ± 0.49 (10)	4.30 ± 0.51 (10) 99	4.41 ± 0.49 (10) 102	4.09 ± 0.52 (10) 94
Monocytes (10 ³ /uL) Percent of Control	SD 92	0.07 ± 0.01 (10)	0.08 ± 0.01 (10) 110	0.08 ± 0.01 (10) 103	0.08 ± 0.01 (10) 104
Basophils (10 ³ /uL) Percent of Control	SD 92	0.03 ± 0.01 (10)	0.04 ± 0.00 (10) 106	0.04 ± 0.01 (10) 115	0.03 ± 0.00 (10) 91
Eosinophils (10 ³ /uL) Percent of Control	SD 92	0.06 ± 0.01 (10)	0.07 ± 0.01 (10) 125	0.06 ± 0.01 (10) 102	0.06 ± 0.01 (10) 107
Large Unstained Cells (10 ³ /uL) Percent of Control	SD 92	0.04 ± 0.01 (10)	0.04 ± 0.01 (10) 105	0.04 ± 0.01 (10) 100	0.04 ± 0.00 (10) 105

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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

Hematology 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 ****