

Experiment Number: C20105-75

Test Type: TOX

Route: Whole Body Exposure

Species/Strain: Mouse/B6C3F1/N

PA43: Hematology Summary

Test Compound: Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 02/17/2017

Time Report Requested: 12:11:54

Lab: NTP

C Number: C20105-75

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)	54.6 ± 0.6 (10)	54.0 ± 0.6 (10)	54.5 ± 0.6 (10)
Percent of Control			100	99	100
Manual Hematocrit (%)	SD 93	50 ± 0 (10)	50 ± 1 (10)	49 ± 1 (10)	50 ± 1 (10)
Percent of Control			99	99	100
Hemoglobin (g/dL)	SD 93	16.1 ± 0.1 (10)	16.0 ± 0.2 (10)	16.0 ± 0.2 (10)	16.1 ± 0.2 (10)
Percent of Control			100	99	100
Red Blood Cells (10 ⁶ /uL)	SD 93	10.87 ± 0.09 (10)	10.77 ± 0.09 (10)	10.68 ± 0.12 (10)	10.76 ± 0.11 (10)
Percent of Control			99	98	99
Reticulocytes (10 ³ /uL)	SD 93	386.3 ± 8.2 (10)	367.1 ± 9.0 (10)	360.3 ± 8.8 (10)	374.6 ± 6.3 (10)
Percent of Control			95	93	97
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)	50.7 ± 0.2 (10)	50.6 ± 0.1 (10)	50.7 ± 0.2 (10)
Percent of Control			100	100	100
Mean Cell Hemoglobin (pg)	SD 93	14.8 ± 0.0 (10) *	14.9 ± 0.1 (10)	14.9 ± 0.1 (10)	15.0 ± 0.1 (10)
Percent of Control			100	101	101
Mean Cell Hemoglobin Concentration (g/dL)	SD 93	29.4 ± 0.1 (10)	29.3 ± 0.1 (10)	29.5 ± 0.1 (10)	29.6 ± 0.1 (10)
Percent of Control			100	101	101
Platelets (10 ³ /uL)	SD 93	1115 ± 31 (10)	1087 ± 36 (10)	1128 ± 30 (10)	1104 ± 40 (10)
Percent of Control			98	101	99
White Blood Cells (10 ³ /uL)	SD 93	5.80 ± 0.50 (10)	5.41 ± 0.35 (10)	5.57 ± 0.43 (10)	5.45 ± 0.44 (10)
Percent of Control			93	96	94

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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)	0.59 ± 0.04 (10) 86	0.62 ± 0.05 (10) 91	0.58 ± 0.05 (10) 85
Lymphocytes (10 ³ /uL) Percent of Control	SD 93	4.82 ± 0.41 (10)	4.57 ± 0.31 (10) 95	4.67 ± 0.38 (10) 97	4.57 ± 0.36 (10) 95
Monocytes (10 ³ /uL) Percent of Control	SD 93	0.09 ± 0.01 (10)	0.09 ± 0.01 (10) 97	0.10 ± 0.01 (10) 108	0.09 ± 0.01 (10) 107
Basophils (10 ³ /uL) Percent of Control	SD 93	0.04 ± 0.01 (10)	0.03 ± 0.01 (10) 92	0.04 ± 0.01 (10) 100	0.05 ± 0.01 (10) 122
Eosinophils (10 ³ /uL) Percent of Control	SD 93	0.09 ± 0.01 (10)	0.07 ± 0.01 (10) 75	0.09 ± 0.01 (10) 92	0.09 ± 0.02 (10) 101
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) 93	0.07 ± 0.01 (10) 93

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Female

Treatment Groups

	Phase Day	0.0 W/kg	2.5 W/kg	5.0 W/kg	10.0 W/kg
Hematocrit (%)	SD 92	54.9 ± 2.0 (10)	55.2 ± 0.8 (10)	56.4 ± 0.6 (10)	56.1 ± 0.4 (10)
Percent of Control			101	103	102
Manual Hematocrit (%)	SD 92	50 ± 2 (10)	52 ± 1 (10)	52 ± 1 (10)	52 ± 0 (10)
Percent of Control			103	104	103
Hemoglobin (g/dL)	SD 92	16.4 ± 0.5 (10)	16.6 ± 0.2 (10)	17.0 ± 0.2 (10)	16.8 ± 0.2 (10)
Percent of Control			102	104	103
Red Blood Cells (10 ⁶ /uL)	SD 92	10.77 ± 0.34 (10)	10.78 ± 0.14 (10)	11.10 ± 0.11 (10)	10.96 ± 0.06 (10)
Percent of Control			100	103	102
Reticulocytes (10 ³ /uL)	SD 92	346.8 ± 17.4 (10)	371.2 ± 14.4 (10)	366.7 ± 20.6 (10)	374.7 ± 13.8 (10)
Percent of Control			107	106	108
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)	50.8 ± 0.2 (10)	51.2 ± 0.1 (10)
Percent of Control			101	100	101
Mean Cell Hemoglobin (pg)	SD 92	15.2 ± 0.1 (10)	15.4 ± 0.1 (10)	15.3 ± 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)	30.1 ± 0.1 (10)	29.9 ± 0.2 (10)
Percent of Control			101	101	100
Platelets (10 ³ /uL)	SD 92	758 ± 65 (10)	736 ± 53 (10)	668 ± 38 (10)	685 ± 41 (10)
Percent of Control			97	88	90
White Blood Cells (10 ³ /uL)	SD 92	5.15 ± 0.57 (10)	5.24 ± 0.45 (10)	4.66 ± 0.55 (10)	4.53 ± 0.34 (10)
Percent of Control			102	91	88

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Female

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) *	0.52 ± 0.04 (10) 87	0.51 ± 0.08 (10) 85	0.42 ± 0.05 (10) 70
Lymphocytes (10 ³ /uL) Percent of Control	SD 92	4.35 ± 0.49 (10)	4.52 ± 0.40 (10) 104	3.95 ± 0.46 (10) 91	3.92 ± 0.31 (10) 90
Monocytes (10 ³ /uL) Percent of Control	SD 92	0.07 ± 0.01 (10)	0.07 ± 0.01 (10) 100	0.07 ± 0.01 (10) 100	0.07 ± 0.01 (10) 92
Basophils (10 ³ /uL) Percent of Control	SD 92	0.03 ± 0.01 (10)	0.04 ± 0.00 (10) 106	0.03 ± 0.01 (10) 100	0.03 ± 0.01 (10) 103
Eosinophils (10 ³ /uL) Percent of Control	SD 92	0.06 ± 0.01 (10)	0.06 ± 0.01 (10) 93	0.06 ± 0.01 (10) 108	0.06 ± 0.01 (10) 93
Large Unstained Cells (10 ³ /uL) Percent of Control	SD 92	0.04 ± 0.01 (10)	0.04 ± 0.00 (10) 95	0.04 ± 0.01 (10) 108	0.04 ± 0.00 (10) 100

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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 ****