

**Experiment Number:** C20105-56

**Test Type:** TOX

**Route:** Whole Body Exposure

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA43: Hematology Summary**

**Test Compound:** Cell Phone Radiation: CDMA

**CAS Number:** CELLPRADCDMA

**Date Report Requested:** 02/17/2017

**Time Report Requested:** 12:12:01

**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
Hematocrit (%)	SD 94	52.0 ± 0.3 (10)	51.9 ± 0.4 (10)	51.4 ± 0.5 (10)	51.9 ± 0.8 (10)
Percent of Control			100	99	100
Manual Hematocrit (%)	SD 94	50 ± 0 (10)	50 ± 1 (10)	50 ± 1 (10)	50 ± 1 (9)
Percent of Control			101	100	101
Hemoglobin (g/dL)	SD 94	16.5 ± 0.1 (10)	16.6 ± 0.1 (10)	16.6 ± 0.1 (10)	16.7 ± 0.3 (10)
Percent of Control			101	100	101
Red Blood Cells (10 <sup>6</sup> /uL)	SD 94	8.88 ± 0.07 (10)	8.92 ± 0.07 (10)	8.91 ± 0.10 (10)	8.82 ± 0.13 (10)
Percent of Control			100	100	99
Reticulocytes (10 <sup>3</sup> /uL)	SD 94	270.4 ± 3.9 (10)	266.8 ± 5.7 (10)	257.4 ± 5.6 (10)	274.8 ± 15.1 (10)
Percent of Control			99	95	102
Nucleated Red Blood Cells (/100 WBC)	SD 94	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 94	58.5 ± 0.4 (10)	58.2 ± 0.4 (10)	57.7 ± 0.5 (10)	58.9 ± 0.5 (10)
Percent of Control			99	99	101
Mean Cell Hemoglobin (pg)	SD 94	18.6 ± 0.1 (10)	18.7 ± 0.1 (10)	18.6 ± 0.1 (10)	18.9 ± 0.1 (10)
Percent of Control			100	100	102
Mean Cell Hemoglobin Concentration (g/dL)	SD 94	31.7 ± 0.1 (10)	32.0 ± 0.2 (10)	32.3 ± 0.2 (10)	32.1 ± 0.2 (10)
Percent of Control			101	102	101
Platelets (10 <sup>3</sup> /uL)	SD 94	894 ± 41 (10)	839 ± 26 (10)	911 ± 22 (10)	926 ± 35 (10)
Percent of Control			94	102	104
White Blood Cells (10 <sup>3</sup> /uL)	SD 94	9.34 ± 0.50 (10)	10.46 ± 0.64 (10)	10.08 ± 0.55 (10)	9.52 ± 0.88 (10)
Percent of Control			112	108	102

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	Phase Day	0.0 W/kg	1.5 W/kg	3.0 W/kg	6.0 W/kg
Neutrophils (10 <sup>3</sup> /uL) Percent of Control	SD 94	1.19 ± 0.09 (10)	1.06 ± 0.14 (10) 89	1.11 ± 0.06 (10) 93	1.03 ± 0.10 (10) 86
Lymphocytes (10 <sup>3</sup> /uL) Percent of Control	SD 94	7.66 ± 0.48 (10)	8.94 ± 0.64 (10) 117	8.49 ± 0.52 (10) 111	8.09 ± 0.82 (10) 106
Monocytes (10 <sup>3</sup> /uL) Percent of Control	SD 94	0.26 ± 0.03 (10)	0.22 ± 0.03 (10) 84	0.21 ± 0.03 (10) 81	0.20 ± 0.03 (10) 78
Basophils (10 <sup>3</sup> /uL) Percent of Control	SD 94	0.05 ± 0.01 (10)	0.06 ± 0.01 (10) 131	0.05 ± 0.00 (10) 102	0.05 ± 0.01 (10) 102
Eosinophils (10 <sup>3</sup> /uL) Percent of Control	SD 94	0.10 ± 0.01 (10)	0.10 ± 0.01 (10) 100	0.13 ± 0.04 (10) 130	0.07 ± 0.01 (10) 74
Large Unstained Cells (10 <sup>3</sup> /uL) Percent of Control	SD 94	0.09 ± 0.01 (10)	0.08 ± 0.01 (10) 95	0.09 ± 0.01 (10) 102	0.07 ± 0.01 (10) 83

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Treatment Groups

	Phase Day	0.0 W/kg	1.5 W/kg	3.0 W/kg	6.0 W/kg
Hematocrit (%)	SD 93	48.1 ± 0.5 (10)	48.9 ± 0.3 (10)	48.7 ± 0.4 (10)	48.4 ± 0.4 (10)
Percent of Control			102	101	101
Manual Hematocrit (%)	SD 93	47 ± 0 (10)	48 ± 0 (10)	48 ± 0 (10) *	48 ± 0 (10)
Percent of Control			103	103	102
Hemoglobin (g/dL)	SD 93	15.6 ± 0.2 (10)	15.8 ± 0.1 (10)	15.8 ± 0.1 (10)	15.7 ± 0.1 (10)
Percent of Control			102	101	101
Red Blood Cells (10 <sup>6</sup> /uL)	SD 93	8.15 ± 0.07 (10)	8.13 ± 0.08 (10)	8.23 ± 0.03 (10)	8.17 ± 0.08 (10)
Percent of Control			100	101	100
Reticulocytes (10 <sup>3</sup> /uL)	SD 93	245.7 ± 14.9 (10)	282.5 ± 10.3 (10)	268.0 ± 19.8 (10)	267.9 ± 14.4 (10)
Percent of Control			115	109	109
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	58.9 ± 0.3 (10)	60.2 ± 0.4 (10)	59.2 ± 0.5 (10)	59.3 ± 0.7 (10)
Percent of Control			102	100	101
Mean Cell Hemoglobin (pg)	SD 93	19.1 ± 0.1 (10)	19.5 ± 0.2 (10)	19.2 ± 0.1 (10)	19.3 ± 0.2 (10)
Percent of Control			102	100	101
Mean Cell Hemoglobin Concentration (g/dL)	SD 93	32.4 ± 0.1 (10)	32.4 ± 0.1 (10)	32.4 ± 0.2 (10)	32.6 ± 0.2 (10)
Percent of Control			100	100	100
Platelets (10 <sup>3</sup> /uL)	SD 93	963 ± 40 (10)	978 ± 36 (10)	989 ± 38 (10)	983 ± 33 (10)
Percent of Control			102	103	102
White Blood Cells (10 <sup>3</sup> /uL)	SD 93	8.80 ± 0.50 (10)	8.12 ± 0.83 (10)	7.82 ± 0.56 (10)	8.83 ± 0.97 (10)
Percent of Control			92	89	100

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Treatment Groups

	Phase Day	0.0 W/kg	1.5 W/kg	3.0 W/kg	6.0 W/kg
Neutrophils (10 <sup>3</sup> /uL) Percent of Control	SD 93	1.15 ± 0.12 (10)	0.96 ± 0.15 (10) 84	0.98 ± 0.11 (10) 86	1.28 ± 0.28 (10) 111
Lymphocytes (10 <sup>3</sup> /uL) Percent of Control	SD 93	7.22 ± 0.40 (10)	6.75 ± 0.67 (10) 94	6.47 ± 0.48 (10) 90	7.12 ± 0.68 (10) 99
Monocytes (10 <sup>3</sup> /uL) Percent of Control	SD 93	0.19 ± 0.02 (10)	0.20 ± 0.03 (10) 110	0.18 ± 0.03 (10) 98	0.19 ± 0.03 (10) 105
Basophils (10 <sup>3</sup> /uL) Percent of Control	SD 93	0.05 ± 0.01 (10)	0.04 ± 0.01 (10) 85	0.03 ± 0.00 (10) 62	0.04 ± 0.01 (10) 79
Eosinophils (10 <sup>3</sup> /uL) Percent of Control	SD 93	0.11 ± 0.02 (10)	0.09 ± 0.01 (10) 82	0.09 ± 0.01 (10) 80	0.12 ± 0.03 (10) 109
Large Unstained Cells (10 <sup>3</sup> /uL) Percent of Control	SD 93	0.09 ± 0.01 (10)	0.07 ± 0.01 (10) 82	0.06 ± 0.01 (10) * 70	0.08 ± 0.01 (10) 90

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LEGEND

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

Values given as mean ± 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 \*\***