

Experiment Number: **G08013C**

Test Type: **Genetic Toxicology - In Vivo Alkaline Comet Assay**

Route: **Whole body**

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

**G01: In Vivo Alkaline Comet Summary Data**

Test Compound: **GSM Radiofrequency**

CAS Number: **CELLPRADGSM**

Date Report Requested: **04/18/2018**

Time Report Requested: **15:26:47**

**NTP Study Number:** G08013C

**Study Duration:** 19 week

**Male Study Result:** Negative

**Female Study Result:** Negative

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Sex: Male; Method: 100-cell

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Dose (W/kg)	N	Blood		N	Cerebellum	
		Percent Tail DNA	p-Value		Percent Tail DNA	p-Value
Vehicle Control <sup>1</sup>	5	1.477 ± 0.287		5	5.569 ± 0.920	
1.5	5	1.832 ± 0.628	0.3522	5	7.359 ± 2.477	0.2950
3.0	5	1.782 ± 0.332	0.4187	5	6.371 ± 0.766	0.3543
6.0	5	1.496 ± 0.273	0.4462	5	8.478 ± 1.847	0.1491
Trend p-Value		0.5497			0.1324	

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Dose (W/kg)	N	Frontal Cortex		Hippocampus		
		Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control <sup>1</sup>	5	6.176 ± 0.719		5	5.875 ± 0.389	
1.5	5	6.975 ± 0.420	0.4647	5	11.821 ± 2.681	0.0916
3.0	5	8.656 ± 1.958	0.2469	5	9.637 ± 1.269	0.1106
6.0	5	6.295 ± 0.316	1.0000	5	11.690 ± 3.915	0.0722
Trend p-Value		0.3432			0.1034	

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**Sex: Male; Method: 100-cell**

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**Liver**

<b>Dose (W/kg)</b>	<b>N</b>	<b>Percent Tail DNA</b>	<b>p-Value</b>
Vehicle Control <sup>1</sup>	5	13.806 ± 2.884	
1.5	5	13.261 ± 2.384	0.5469
3.0	5	13.093 ± 2.321	0.6337
6.0	5	14.494 ± 2.714	0.5365
Trend p-Value		0.4043	

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Sex: Male; Method: 150-cell

Dose (W/kg)	N	Blood		Cerebellum		
		Percent Tail DNA	p-Value	Percent Tail DNA	p-Value	
Vehicle Control <sup>1</sup>	5	0.687 ± 0.204		5	4.897 ± 0.820	
1.5	5	3.974 ± 2.754	0.1463	5	9.430 ± 4.692	0.1904
3.0	5	1.969 ± 0.346	0.0209 *	5	8.664 ± 2.166	0.2317
6.0	5	1.279 ± 0.231	0.2722	5	12.111 ± 3.892	0.0875
Trend p-Value		0.0892			0.0764	

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Sex: Male; Method: 150-cell

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Dose (W/kg)	N	Frontal Cortex		N	Hippocampus	
		Percent Tail DNA	p-Value		Percent Tail DNA	p-Value
Vehicle Control <sup>1</sup>	5	9.731 ± 0.808		5	8.995 ± 1.553	
1.5	5	11.963 ± 1.649	0.6340	5	17.238 ± 4.088	0.1861
3.0	5	17.982 ± 5.118	0.5453	5	14.766 ± 2.545	0.2266
6.0	5	9.570 ± 1.569	1.0000	5	21.319 ± 9.552	0.0801
Trend p-Value		0.5000			0.0762	

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Liver			
Dose (W/kg)	N	Percent Tail DNA	p-Value
Vehicle Control <sup>1</sup>	5	25.711 ± 8.712	
1.5	5	23.272 ± 9.430	0.5390
3.0	5	25.153 ± 8.425	0.6040
6.0	5	28.250 ± 10.553	0.5344
Trend p-Value		0.3897	

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**Sex: Female; Method: 100-cell**

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Dose (W/kg)	N	Blood		N	Cerebellum	
		Percent Tail DNA	p-Value		Percent Tail DNA	p-Value
Vehicle Control <sup>1</sup>	5	3.149 ± 0.398		5	5.942 ± 0.975	
1.5	5	2.798 ± 0.330	0.5933	5	5.685 ± 0.748	0.6616
3.0	5	3.392 ± 0.677	0.4474	5	4.621 ± 0.848	0.7487
6.0	5	3.930 ± 0.633	0.2025	5	6.623 ± 0.956	0.3810
Trend p-Value		0.0926			0.3024	



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**Sex: Female; Method: 100-cell**

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Dose (W/kg)	N	Frontal Cortex		N	Hippocampus	
		Percent Tail DNA	p-Value		Percent Tail DNA	p-Value
Vehicle Control <sup>1</sup>	5	7.028 ± 1.211		4	13.137 ± 1.204	
1.5	5	4.867 ± 0.470	0.8200	4	13.217 ± 1.559	0.9361
3.0	5	6.178 ± 0.671	0.8427	4	17.671 ± 3.640	0.3509
6.0	5	6.737 ± 0.736	0.7232	5	13.209 ± 1.029	1.0000
Trend p-Value		0.3858			0.3344	

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**Sex: Female; Method: 100-cell**

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**Liver**

<b>Dose (W/kg)</b>	<b>N</b>	<b>Percent Tail DNA</b>	<b>p-Value</b>
Vehicle Control <sup>1</sup>	5	10.085 ± 0.866	
1.5	5	9.910 ± 2.595	1.0000
3.0	5	9.458 ± 2.067	1.0000
6.0	5	18.986 ± 6.200	1.0000
Trend p-Value		0.3939	

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**Sex: Female; Method: 150-cell**

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Dose (W/kg)	N	Blood		N	Cerebellum	
		Percent Tail DNA	p-Value		Percent Tail DNA	p-Value
Vehicle Control <sup>1</sup>	5	3.322 ± 0.091		5	4.933 ± 1.085	
1.5	5	3.072 ± 0.431	1.0000	5	5.109 ± 0.625	0.7307
3.0	5	2.821 ± 0.524	1.0000	5	3.513 ± 0.740	1.0000
6.0	5	3.864 ± 0.764	1.0000	5	6.536 ± 2.327	1.0000
Trend p-Value		0.5800			0.7048	

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Dose (W/kg)	N	Frontal Cortex		Hippocampus		
		Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control <sup>1</sup>	5	12.228 ± 2.180		4	18.079 ± 1.296	
1.5	5	6.279 ± 1.004	0.8558	4	17.535 ± 3.592	1.0000
3.0	5	9.826 ± 1.110	0.8769	4	28.083 ± 6.997	0.6618
6.0	5	13.741 ± 2.794	0.3757	5	18.190 ± 3.353	1.0000
Trend p-Value		0.1365			0.5341	

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<b>Liver</b>			
<b>Dose (W/kg)</b>	<b>N</b>	<b>Percent Tail DNA</b>	<b>p-Value</b>
Vehicle Control <sup>1</sup>	5	12.408 ± 1.639	
1.5	5	17.046 ± 7.238	1.0000
3.0	5	14.061 ± 5.681	1.0000
6.0	5	26.029 ± 10.685	1.0000
Trend p-Value		0.5800	

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LEGEND

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CAS Number = Chemical Abstracts Service registry number

N = Number of subjects

Values given as Mean or Mean  $\pm$  Standard Error Mean

\*Statistically significant pairwise or trend at  $P < 0.025$  before rounding

Statistical analysis performed by Jonckheere or LinearTrend (trend) and Williams or Dunn (pairwise) tests

1: Vehicle Control: Air

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