

Experiment Number: **G08013D**

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

Route: **Whole body**

Species/Strain: **Mouse/B6C3F1/N**

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

Test Compound: **GSM Radiofrequency**

CAS Number: **CELLPRADGSM**

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

Time Report Requested: **15:27:39**

**NTP Study Number:** G08013D

**Study Duration:** 94 day

**Male Study Result:** Positive

**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	1.604 ± 0.682		5	5.479 ± 1.303	
2.5	5	1.852 ± 0.955	0.4160	5	3.655 ± 0.298	0.8309
5.0	5	1.748 ± 0.367	0.4911	5	3.897 ± 0.591	0.8963
10.0	5	1.853 ± 0.239	0.4942	5	3.852 ± 1.078	0.9187
Trend p-Value		0.4085			0.8376	

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Dose (W/kg)	N	Frontal Cortex		Hippocampus		
		Percent Tail DNA	p-Value	Percent Tail DNA	p-Value	
Vehicle Control <sup>1</sup>	5	0.632 ± 0.080		5	7.691 ± 2.004	
2.5	5	1.715 ± 0.459	0.0815	5	8.736 ± 1.933	0.5141
5.0	5	1.394 ± 0.149	0.0815	5	7.173 ± 1.080	0.5983
10.0	5	3.727 ± 0.651	< 0.001 *	5	6.899 ± 1.194	0.6333
Trend p-Value		< 0.001 *			0.7196	

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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	16.300 ± 2.212	
2.5	5	17.656 ± 1.887	0.4689
5.0	5	15.400 ± 1.195	0.5494
10.0	5	18.941 ± 2.002	0.2134
Trend p-Value		0.1983	

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Sex: Male; Method: 150-cell

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Dose (W/kg)	N	Frontal Cortex	
		Percent Tail DNA	p-Value
Vehicle Control <sup>1</sup>	5	1.321 ± 0.214	
2.5	5	4.253 ± 1.198	0.0634
5.0	5	3.686 ± 0.530	0.0634
10.0	5	5.600 ± 1.283	0.0058 *
Trend p-Value		0.0036 *	

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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	1.029 ± 0.133		5	5.883 ± 0.852	
2.5	5	1.251 ± 0.437	0.3351	5	6.557 ± 1.224	1.0000
5.0	5	1.165 ± 0.084	0.3995	5	5.257 ± 0.592	1.0000
10.0	5	1.317 ± 0.343	0.3164	5	6.536 ± 1.709	1.0000
Trend p-Value		0.2661			0.6061	

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Sex: Female; Method: 100-cell

Dose (W/kg)	N	Frontal Cortex		N	Hippocampus	
		Percent Tail DNA	p-Value		Percent Tail DNA	p-Value
Vehicle Control <sup>1</sup>	5	8.112 ± 2.126		5	8.154 ± 1.645	
2.5	5	7.334 ± 0.902	0.6574	5	6.230 ± 1.004	0.8657
5.0	5	7.689 ± 1.978	0.7444	5	4.536 ± 1.287	0.9233
10.0	5	5.738 ± 0.619	0.7793	5	5.224 ± 1.225	0.9419
Trend p-Value		0.8605			0.9326	

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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	5.484 ± 0.600	
2.5	5	7.059 ± 0.611	0.0963
5.0	5	6.359 ± 0.251	0.1169
10.0	5	6.471 ± 0.792	0.1236
Trend p-Value		0.2485	



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

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<b>Blood</b>				<b>Liver</b>		
<b>Dose (W/kg)</b>	<b>N</b>	<b>Percent Tail DNA</b>	<b>p-Value</b>	<b>N</b>	<b>Percent Tail DNA</b>	<b>p-Value</b>
Vehicle Control <sup>1</sup>	5	2.148 ± 0.084		5	4.344 ± 0.598	
2.5	5	2.576 ± 0.348	0.5040	5	7.440 ± 0.482	0.0274
5.0	5	2.227 ± 0.188	1.0000	5	5.454 ± 0.956	0.0324
10.0	5	2.280 ± 0.506	1.0000	5	6.520 ± 0.747	0.0300
Trend p-Value		0.6568			0.1330	

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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 \*\***