

Experiment Number: **G08015D**

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: **CDMA Radiofrequency**

CAS Number: **CELLPRADCDMA**

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

Time Report Requested: **15:30:49**

NTP Study Number: G08015D

Study Duration: 94 day

Male Study Result: Positive

Female Study Result: Positive

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Sex: Male; Method: 100-cell

Dose (W/kg)	N	Blood		Cerebellum		
		Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control ¹	5	1.604 ± 0.682		5	5.479 ± 1.303	
2.5	5	2.095 ± 0.495	0.4489	5	7.351 ± 2.471	0.3389
5.0	5	1.295 ± 0.278	0.5268	5	7.865 ± 2.799	0.4040
10.0	5	2.857 ± 0.265	0.0459	5	5.432 ± 2.427	0.4310
Trend p-Value		0.0566			0.5539	

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Sex: Male; Method: 100-cell

Dose (W/kg)	N	Frontal Cortex		Hippocampus	
		Percent Tail DNA	p-Value	Percent Tail DNA	p-Value
Vehicle Control ¹	5	0.632 ± 0.080		7.691 ± 2.004	
2.5	5	3.456 ± 0.646	0.0142 *	9.585 ± 4.333	0.5212
5.0	5	5.880 ± 1.063	< 0.001 *	6.440 ± 1.214	0.6060
10.0	5	8.853 ± 1.094	< 0.001 *	6.381 ± 0.928	0.6411
Trend p-Value		< 0.001 *		0.7400	

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Sex: Male; Method: 100-cell

Liver

Dose (W/kg)	N	Percent Tail DNA	p-Value
Vehicle Control ¹	5	16.300 ± 2.212	
2.5	5	20.269 ± 5.528	1.0000
5.0	5	16.150 ± 1.150	1.0000
10.0	5	16.430 ± 0.831	1.0000
Trend p-Value		0.3683	

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Sex: Male; Method: 150-cell

Dose (W/kg)	N	Frontal Cortex	
		Percent Tail DNA	p-Value
Vehicle Control ¹	5	1.321 ± 0.214	
2.5	5	4.520 ± 0.569	0.1308
5.0	5	6.061 ± 0.962	0.0180 *
10.0	5	10.044 ± 2.076	< 0.001 *
Trend p-Value		< 0.001 *	

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Sex: Female; Method: 100-cell

Dose (W/kg)	N	Blood		N	Cerebellum	
		Percent Tail DNA	p-Value		Percent Tail DNA	p-Value
Vehicle Control ¹	5	1.029 ± 0.133		5	5.883 ± 0.852	
2.5	5	2.524 ± 0.537	0.0204 *	5	6.784 ± 1.670	0.2963
5.0	5	1.708 ± 0.371	0.0241 *	5	8.391 ± 1.129	0.1941
10.0	5	2.202 ± 0.193	0.0180 *	5	6.731 ± 0.769	0.2074
Trend p-Value		0.0850			0.2980	

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Sex: Female; Method: 100-cell

Dose (W/kg)	N	Frontal Cortex		Hippocampus		
		Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control ¹	5	8.112 ± 2.126		5	8.154 ± 1.645	
2.5	5	4.877 ± 0.553	0.9111	5	5.759 ± 0.996	0.8392
5.0	5	4.894 ± 0.568	0.9553	5	5.219 ± 1.022	0.9027
10.0	5	4.797 ± 0.895	0.9679	5	5.340 ± 1.817	0.9246
Trend p-Value		0.9349			0.8921	

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Liver

Dose (W/kg)	N	Percent Tail DNA	p-Value
Vehicle Control ¹	5	5.484 ± 0.600	
2.5	5	7.545 ± 0.898	0.0339
5.0	5	7.357 ± 0.718	0.0405
10.0	5	7.633 ± 0.589	0.0304
Trend p-Value		0.0496	

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Sex: Female; Method: 150-cell

Dose (W/kg)	N	Blood		N	Liver	
		Percent Tail DNA	p-Value		Percent Tail DNA	p-Value
Vehicle Control ¹	5	2.148 ± 0.084		5	4.344 ± 0.598	
2.5	5	3.624 ± 0.658	0.0113 *	5	6.201 ± 0.993	0.0495
5.0	5	3.389 ± 0.448	0.0154 *	5	8.301 ± 0.916	0.0087 *
10.0	5	2.450 ± 0.235	0.4276	5	6.136 ± 0.264	0.0089 *
Trend p-Value		0.1731			0.1004	

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LEGEND

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 ****