

Experiment Number: **G1104ZF**

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

Route: **Oral Gavage**

Species/Strain: **Mouse/B6C3F1**

G01: In Vivo Alkaline Comet Summary Data

Test Compound: **Cumene**

CAS Number: **98-82-8**

Date Report Requested: **08/30/2018**

Time Report Requested: **15:46:51**

NTP Study Number:

G1104ZF

Study Duration:

4 day

Male Study Result:

Negative

Female Study Result:

Positive

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Sex: Male; Number of Treatments: 4; Time interval between final treatment and cell sampling: 3 h

Dose (mg/kg/day)	Blood			Kidney		
	N	Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control ¹	6	2.409 ± 0.375		6	3.497 ± 0.198	
312	6	2.442 ± 0.248	0.5255	6	4.037 ± 0.456	0.3367
625	6	2.580 ± 0.511	0.6082	6	3.385 ± 0.261	0.3986
1250	5	2.006 ± 0.274	0.6544	5	3.753 ± 0.483	0.4053
Trend p-Value		0.7701			0.4565	
Positive Control ²	5	14.177 ± 0.407	< 0.001 *	5	4.847 ± 0.388	0.0050 *

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Sex: Male; Number of Treatments: 4; Time interval between final treatment and cell sampling: 3 h

Dose (mg/kg/day)	Liver			Lung		
	N	Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control ¹	6	7.498 ± 0.784		6	11.875 ± 1.212	
312	6	9.284 ± 0.351	0.1763	6	12.145 ± 0.800	0.4331
625	6	7.632 ± 0.546	0.2131	6	13.676 ± 1.330	0.2205
1250	5	8.333 ± 1.067	0.2411	5	12.983 ± 1.252	0.2498
Trend p-Value		0.4012			0.2043	
Positive Control ²	5	27.973 ± 0.783	< 0.001 *	5	16.662 ± 1.001	0.0079 *

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Sex: Female; Number of Treatments: 4; Time interval between final treatment and cell sampling: 3 h

Dose (mg/kg/day)	Blood			Kidney		
	N	Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control ¹	6	2.097 ± 0.175		6	5.646 ± 0.746	
250	6	2.362 ± 0.357	0.4683	6	4.416 ± 0.275	0.8797
500	6	1.949 ± 0.210	0.5481	6	4.406 ± 0.436	0.9330
1000	6	2.063 ± 0.245	0.5815	6	5.511 ± 0.301	0.6992
Trend p-Value		0.6604			0.4209	
Positive Control ²	5	15.379 ± 0.604	< 0.001 *	5	17.394 ± 0.541	< 0.001 *

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Dose (mg/kg/day)	Liver			Lung		
	N	Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control ¹	6	10.417 ± 1.676		6	6.785 ± 0.324	
250	6	11.182 ± 1.913	0.4859	6	7.328 ± 0.551	0.2564
500	6	10.993 ± 0.958	0.5664	6	7.787 ± 0.698	0.1402
1000	6	9.303 ± 1.834	0.6009	6	8.723 ± 0.660	0.0158 *
Trend p-Value		0.7318			0.0085 *	
Positive Control ²	5	24.537 ± 1.218	< 0.001 *	5	23.693 ± 0.996	0.0031 *

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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

Pairwise comparison with the control group; values are significant at $P \leq 0.025$ by Williams or Dunn's test

Dose-related trend; significant at $P \leq 0.025$ by linear regression or Jonckheere's test

* Statistically significant pairwise or trend test

1: Vehicle Control: Corn Oil

2: 150 mg/kg/day EMS

**** END OF REPORT ****