

Experiment Number: **G1104ZE**

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

Route: **Oral Gavage**

Species/Strain: **Rat/F344/DuCrI**

G01: In Vivo Alkaline Comet Summary Data

Test Compound: **Cumene**

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

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

Time Report Requested: **15:46:26**

NTP Study Number:

G1104ZE

Study Duration:

4 day

Male 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)	N	Blood		N	Kidney	
		Percent Tail DNA	p-Value		Percent Tail DNA	p-Value
Vehicle Control ¹	6	3.664 ± 0.394		6	8.176 ± 0.474	
200	6	3.575 ± 0.195	0.5332	6	7.530 ± 1.005	0.6970
400	6	4.188 ± 0.402	0.2434	6	7.681 ± 0.910	0.7827
800	6	4.011 ± 0.416	0.2596	6	7.085 ± 0.393	0.8155
Trend p-Value		0.1807			0.8341	
Positive Control ²	6	32.850 ± 0.689	< 0.001 *	6	36.464 ± 2.958	0.0020 *

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Dose (mg/kg/day)	N	Liver		N	Lung	
		Percent Tail DNA	p-Value		Percent Tail DNA	p-Value
Vehicle Control ¹	6	5.876 ± 0.616		6	6.374 ± 0.327	
200	6	6.967 ± 0.415	0.1102	6	6.344 ± 0.696	0.5054
400	6	7.505 ± 0.637	0.0439	6	7.201 ± 1.029	0.2401
800	6	8.465 ± 0.730	0.0040 *	6	7.395 ± 0.450	0.1920
Trend p-Value		0.0025 *			0.1029	
Positive Control ²	6	37.154 ± 0.570	< 0.001 *	6	40.608 ± 0.557	< 0.001 *

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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: 200 mg/kg/day EMS

**** END OF REPORT ****