

Experiment Number: **F92367B**

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: **Acetylacetone**

CAS Number: **123-54-6**

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

Time Report Requested: **15:45:03**

NTP Study Number:

F92367B

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: 4 h

Dose (mg/kg/day)	Blood			Liver		
	N	Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control ¹	5	8.687 ± 0.106		5	20.807 ± 1.674	
750	5	9.454 ± 0.838	0.2608	5	23.724 ± 2.292	0.1571
1000	4	12.729 ± 1.358	0.0036 *	4	24.161 ± 2.026	0.1660
1500	0			0		
Trend p-Value		0.0157 *			0.1041	
Positive Control ²	5	19.999 ± 1.954	0.0045 *	5	23.862 ± 1.128	0.0842

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Stomach			
Dose (mg/kg/day)	N	Percent Tail DNA	p-Value
Vehicle Control ¹	5	30.378 ± 0.762	
750	5	27.720 ± 2.057	1.0000
1000	4	38.865 ± 3.254	0.0371
1500	0		
Trend p-Value		0.0447	
Positive Control ²	5	33.472 ± 3.451	0.4584

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Dose (mg/kg/day)	Blood			Liver		
	N	Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control ¹	5	7.493 ± 0.764		5	24.341 ± 3.695	
250	5	6.205 ± 1.204	0.6824	5	24.443 ± 1.871	0.4881
500	5	9.417 ± 0.764	0.1012	5	24.946 ± 1.358	0.5111
Trend p-Value		0.1050			0.4311	

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Stomach

Dose (mg/kg/day)	N	Percent Tail DNA	p-Value
Vehicle Control ¹	5	29.374 ± 1.483	
250	5	31.784 ± 2.048	0.1710
500	5	32.503 ± 1.613	0.1342
Trend p-Value		0.1046	

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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

Second trial conducted to provide additional insight into DNA damage response at lower doses

1: Vehicle Control: Corn Oil

2: 25 mg/kg/day Cyclophosphamide

**** END OF REPORT ****