

Experiment Number: 143332  
Test Type: Genetic Toxicology - Micronucleus  
Route: Intraperitoneal Injection  
Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**  
Test Compound: tris(2-Ethylhexyl)phosphate  
CAS Number: 78-42-2

Date Report Requested: 09/19/2018  
Time Report Requested: 13:16:00

**NTP Study Number:** 143332  
**Study Duration:** 96 Hours  
**Study Methodology:** Slide Scoring  
**Male Study Result:** Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 48 h

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Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	2.70 ± 0.60		4.14 ± 0.29
1000.0	5	2.20 ± 0.34	0.7627	2.62 ± 0.40
2000.0	5	1.40 ± 0.19	0.9789	2.38 ± 0.24
Trend p-Value		0.9780		

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Trial Summary: Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	1.80 ± 0.20		3.00 ± 0.30
500.0	5	1.80 ± 0.34	0.5000	1.98 ± 0.33
1000.0	5	2.00 ± 0.47	0.3727	2.20 ± 0.21
2000.0	5	1.90 ± 0.33	0.4346	2.52 ± 0.29
Trend p-Value		0.4150		
Positive Control <sup>2</sup>	5	8.50 ± 1.75	< 0.001 *	1.96 ± 0.58

Trial Summary: Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	3.80 ± 0.70		4.02 ± 0.30
1500.0	5	3.30 ± 0.60	0.7239	3.90 ± 0.29
2000.0	5	3.10 ± 0.62	0.8007	3.30 ± 0.16
Trend p-Value		0.8090		
Positive Control <sup>2</sup>	5	11.60 ± 1.68	< 0.001 *	2.76 ± 0.41

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Tissue: Blood; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	2.80 ± 0.58		3.48 ± 0.19
2000.0	5	2.60 ± 0.24	0.6074	2.84 ± 0.27
3000.0	5	3.00 ± 0.32	0.3963	2.66 ± 0.24
Trend p-Value		0.4300		
Positive Control <sup>2</sup>	4	6.13 ± 0.47	< 0.001 *	2.20 ± 0.08

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	1.10 ± 0.40		49.90 ± 2.46
500.0	5	1.90 ± 0.10	0.0719	46.40 ± 1.73
1000.0	5	3.20 ± 0.82	< 0.001 *	54.70 ± 3.89
2000.0	5	3.90 ± 0.62	< 0.001 *	46.70 ± 3.62
Trend p-Value		< 0.001 *		
Positive Control <sup>2</sup>	5	6.60 ± 1.57	< 0.001 *	47.90 ± 2.83

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

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		MN PCE/1000		% PCE	
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM	
Vehicle Control <sup>1</sup>	5	2.00 ± 0.42		51.70 ± 6.38	
1500.0	5	2.20 ± 0.64	0.3787	58.70 ± 2.31	
2000.0	5	1.60 ± 0.40	0.7477	48.10 ± 5.15	
Trend p-Value		0.6600			
Positive Control <sup>2</sup>	5	8.70 ± 1.35	< 0.001 *	49.30 ± 4.10	

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

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Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	1.80 ± 0.30		63.30 ± 1.60
2000.0	5	2.00 ± 0.50	0.3727	52.20 ± 2.97
3000.0	5	2.90 ± 0.29	0.0541	57.70 ± 1.85
Trend p-Value		0.0660		
Positive Control <sup>2</sup>	4	7.75 ± 0.97	< 0.001 *	63.38 ± 2.83

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Trial Summary: Negative

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#### LEGEND

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MN = micronucleated, PCE = polychromatic erythrocyte, NCE = normochromatic erythrocyte

CAS Number = Chemical Abstracts Service registry number

N = Number of subjects

Values given as Mean or Mean  $\pm$  Standard Error Mean

Results were tabulated as the mean of the pooled results from all animals within a treatment group, plus or minus the standard error of the mean

Pairwise comparison to the concurrent control, dosed groups significant at  $p = 0.025/\text{number of treatment groups}$ ; positive control value is significant at  $p = 0.05$

Cochran-Armitage trend test, significant at  $p = 0.025$

\* Statistically significant pairwise or trend test

1: Vehicle Control: Corn Oil

2: 12.5 mg/kg Dimethylbenzanthracene

**\*\* END OF REPORT \*\***