

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018

Time Report Requested: 10:21:46

NTP Study Number:	A91629
Study Duration:	96 Hours
Study Methodology:	Slide Scoring
Male Study Result:	Positive
Female Study Result:	Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018
Time Report Requested: 10:21:46

Tissue: Blood; Sex: Male; Number of Treatments: 45; Time interval between final treatment and cell sampling: 24 h

Dose (ug/mL)	N	MN PCE/1000		N	MN NCE/1000	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value
Vehicle Control ¹	12	2.41 ± 0.26		12	1.78 ± 0.16	
1.0	8	7.49 ± 0.71	< 0.001 *	8	8.58 ± 0.73	< 0.001 *
4.0	8	26.88 ± 2.70	< 0.001 *	8	22.11 ± 1.77	< 0.001 *
Trend p-Value		< 0.001 *			< 0.001 *	

Trial Summary: Positive

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G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018
Time Report Requested: 10:21:46

Tissue: Blood; Sex: Male; Number of Treatments: 90; Time interval between final treatment and cell sampling: 24 h

Dose (ug/mL)	N	MN PCE/1000		N	MN NCE/1000	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value
Vehicle Control ¹	12	3.26 ± 0.44		12	2.04 ± 0.10	
1.0	8	8.17 ± 1.48	< 0.001 *	8	8.01 ± 0.72	< 0.001 *
4.0	8	24.42 ± 1.08	< 0.001 *	8	24.10 ± 1.87	< 0.001 *
Trend p-Value		< 0.001 *			< 0.001 *	

Trial Summary: Positive

Experiment Number: A91629
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Date Report Requested: 09/21/2018
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Tissue: Blood; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 24 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ²	8	1.75 ± 0.59	
0.2	8	6.00 ± 1.07	0.0011 *
0.6	8	13.75 ± 1.44	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: A91629
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Tissue: Blood; Sex: Male; Number of Treatments: 2; Time interval between final treatment and cell sampling: 24 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ²	8	2.25 ± 0.59	
0.2	8	10.75 ± 1.00	< 0.001 *
0.6	8	29.00 ± 3.32	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
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Date Report Requested: 09/21/2018
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Tissue: Blood; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ²	8	1.75 ± 0.45	
0.2	8	10.00 ± 1.69	< 0.001 *
0.6	8	28.25 ± 3.53	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018
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Tissue: Blood; Sex: Male; Number of Treatments: 4; Time interval between final treatment and cell sampling: 24 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ²	8	2.00 ± 0.53	
0.2	8	11.25 ± 1.25	< 0.001 *
0.6	8	32.00 ± 3.38	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018
Time Report Requested: 10:21:46

Tissue: Blood; Sex: Male; Number of Treatments: 10; Time interval between final treatment and cell sampling: 24 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ²	8	2.00 ± 0.38	
0.2	8	11.00 ± 1.13	< 0.001 *
0.6	8	31.25 ± 3.93	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018
Time Report Requested: 10:21:46

Tissue: Blood; Sex: Female; Number of Treatments: 45; Time interval between final treatment and cell sampling: 24 h

Dose (ug/mL)	N	MN PCE/1000		N	MN NCE/1000	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value
Vehicle Control [†]	12	2.34 ± 0.29		12	1.30 ± 0.08	
1.0	8	10.48 ± 1.41	< 0.001 *	8	7.25 ± 0.34	< 0.001 *
4.0	8	19.74 ± 1.26	< 0.001 *	8	18.97 ± 1.43	< 0.001 *
Trend p-Value		< 0.001 *			< 0.001 *	

Trial Summary: Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018
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Tissue: Blood; Sex: Female; Number of Treatments: 90; Time interval between final treatment and cell sampling: 24 h

Dose (ug/mL)	N	MN PCE/1000		N	MN NCE/1000	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value
Vehicle Control ¹	12	1.93 ± 0.33		12	1.56 ± 0.09	
1.0	8	7.49 ± 0.71	< 0.001 *	8	8.01 ± 0.39	< 0.001 *
4.0	8	20.28 ± 1.87	< 0.001 *	8	19.99 ± 1.48	< 0.001 *
Trend p-Value		< 0.001 *			< 0.001 *	

Trial Summary: Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018
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Tissue: Bone marrow; Sex: Male; Number of Treatments: 90; Time interval between final treatment and cell sampling: 24 h

MN PCE/1000			
Dose (ug/mL)	N	Mean ± SEM	p-Value
Vehicle Control ¹	12	2.33 ± 0.28	
1.0	8	10.25 ± 0.98	< 0.001 *
4.0	8	28.00 ± 2.95	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018
Time Report Requested: 10:21:46

Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 24 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ²	8	1.75 ± 0.45	
0.2	8	16.25 ± 1.44	< 0.001 *
0.6	8	46.75 ± 2.93	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018
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Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 48 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ²	8	1.50 ± 0.33	
0.2	8	4.00 ± 0.38	0.0164
0.6	8	7.50 ± 1.35	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018
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Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 72 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ²	8	2.75 ± 0.53	
0.2	8	3.50 ± 0.63	0.2739
0.6	8	2.75 ± 0.53	0.5000
Trend p-Value		0.5530	

Trial Summary: Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018
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Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; 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 ²	8	2.00 ± 0.53		8.96 ± 0.55
0.2	8	7.50 ± 1.30	< 0.001 *	9.36 ± 0.61
0.6	8	13.75 ± 2.02	< 0.001 *	9.96 ± 0.72
Trend p-Value		< 0.001 *		

Trial Summary: Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018
Time Report Requested: 10:21:46

Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 72 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ²	8	2.50 ± 0.73		8.68 ± 0.32
0.2	8	2.50 ± 0.63	0.5000	10.09 ± 0.51
0.6	8	3.75 ± 0.70	0.1583	9.40 ± 0.48
Trend p-Value		0.1290		

Trial Summary: Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

Date Report Requested: 09/21/2018
Time Report Requested: 10:21:46

Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 48 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ²	8	2.75 ± 0.53		7.84 ± 0.23
0.2	8	9.50 ± 1.12	< 0.001 *	8.58 ± 0.36
0.6	8	30.50 ± 2.56	< 0.001 *	9.19 ± 0.42
Trend p-Value		< 0.001 *		

Trial Summary: Positive

Experiment Number: A91629
Test Type: Genetic Toxicology - Micronucleus
Route: Dosed-Water
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Triethylenemelamine
CAS Number: 51-18-3

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Tissue: Bone marrow; Sex: Female; Number of Treatments: 90; Time interval between final treatment and cell sampling: 24 h

MN PCE/1000			
Dose (ug/mL)	N	Mean ± SEM	p-Value
Vehicle Control ¹	12	2.00 ± 0.39	
1.0	8	8.88 ± 1.13	< 0.001 *
4.0	8	24.13 ± 1.76	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A91629**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Dosed-Water**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Triethylenemelamine**
CAS Number: **51-18-3**

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LEGEND

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: Water

2: Vehicle Control: Saline

**** END OF REPORT ****