Experiment Number: **A44921**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Mitomycin C**
CAS Number: **50-07-7**

Date Report Requested: **09/20/2018**
Time Report Requested: **14:58:40**

NTP Study Number:	A44921
Study Duration:	96 Hours
Study Methodology:	Slide Scoring
Male Study Result:	Positive

Experiment Number: **A44921**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Mitomycin C**
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Date Report Requested: **09/20/2018**
Time Report Requested: **14:58:40**

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[1]	8	2.50 ± 0.50	
0.5	8	5.75 ± 1.49	0.0430
1.0	8	12.00 ± 3.07	< 0.001 *
2.0	8	23.00 ± 3.23	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A44921**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Mitomycin C**
CAS Number: **50-07-7**

Date Report Requested: **09/20/2018**
Time Report Requested: **14:58:40**

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[1]	8	2.50 ± 0.50	
0.5	8	13.25 ± 2.14	< 0.001 *
1.0	8	29.75 ± 5.01	< 0.001 *
2.0	7	64.00 ± 5.92	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A44921**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Mitomycin C**
CAS Number: **50-07-7**

Date Report Requested: **09/20/2018**
Time Report Requested: **14:58:40**

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[1]	8	2.00 ± 0.76	
0.5	8	15.25 ± 1.69	< 0.001 *
1.0	7	36.57 ± 3.32	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A44921**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Mitomycin C**
CAS Number: **50-07-7**

Date Report Requested: **09/20/2018**
Time Report Requested: **14:58:40**

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[1]	8	2.25 ± 0.45	
0.5	8	19.00 ± 2.62	< 0.001 *
1.0	6	37.67 ± 3.48	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A44921**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Mitomycin C**
CAS Number: **50-07-7**

Date Report Requested: **09/20/2018**
Time Report Requested: **14:58:40**

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[1]	8	1.75 ± 0.45	
0.5	8	19.75 ± 1.67	< 0.001 *
1.0	8	42.50 ± 1.92	< 0.001 *
2.0	4	100.00 ± 5.48	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A44921**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Mitomycin C**
CAS Number: **50-07-7**

Date Report Requested: **09/20/2018**
Time Report Requested: **14:58:40**

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[1]	8	2.25 ± 0.70	
0.5	8	6.75 ± 1.77	0.0072 *
1.0	8	11.50 ± 1.64	< 0.001 *
2.0	8	15.00 ± 2.95	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A44921**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Mitomycin C**
CAS Number: **50-07-7**

Date Report Requested: **09/20/2018**
Time Report Requested: **14:58:40**

Tissue: Blood; 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[1]	8	2.00 ± 0.38	
0.5	8	13.50 ± 2.06	< 0.001 *
1.0	8	25.25 ± 3.58	< 0.001 *
2.0	8	47.00 ± 8.90	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A44921**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Mitomycin C**
CAS Number: **50-07-7**

Date Report Requested: **09/20/2018**
Time Report Requested: **14:58:40**

Tissue: Blood; 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[1]	8	1.50 ± 0.33	
0.5	8	3.50 ± 0.33	0.0366
1.0	8	7.50 ± 0.82	< 0.001 *
2.0	7	16.57 ± 1.94	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A44921**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Mitomycin C**
CAS Number: **50-07-7**

Date Report Requested: **09/20/2018**
Time Report Requested: **14:58:40**

Tissue: Bone marrow; 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[1]	8	1.75 ± 0.45	
0.5	8	18.00 ± 1.69	< 0.001 *
1.0	6	42.00 ± 5.14	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A44921**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Mitomycin C**
CAS Number: **50-07-7**

Date Report Requested: **09/20/2018**
Time Report Requested: **14:58:40**

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[1]	8	2.00 ± 0.53	
0.5	8	13.25 ± 1.64	0.0032 *
1.0	8	27.25 ± 3.82	< 0.001 *
2.0	8	49.50 ± 13.02	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A44921**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Mitomycin C**
CAS Number: **50-07-7**

Date Report Requested: **09/20/2018**
Time Report Requested: **14:58:40**

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[1]	8	2.25 ± 0.59	
0.5	8	4.00 ± 0.76	0.1424
1.0	8	10.25 ± 2.25	< 0.001 *
2.0	8	24.00 ± 4.64	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A44921**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Mitomycin C**
CAS Number: **50-07-7**

Date Report Requested: **09/20/2018**
Time Report Requested: **14:58:40**

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[1]	8	1.75 ± 0.25	
0.5	8	2.75 ± 0.37	0.1726
1.0	8	2.25 ± 0.45	0.3084
2.0	8	3.75 ± 0.70	0.0438
Trend p-Value		0.0530	

Trial Summary: Positive

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 ± 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/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: Saline

** END OF REPORT **