Experiment Number: **A53968**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Gavage**
Species/Strain: **Mouse/P16(INK4A)/(+/-) (C57BL/6)**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Benzene**
CAS Number: **71-43-2**

Date Report Requested: **09/20/2018**
Time Report Requested: **19:06:40**

NTP Study Number:	A53968
Study Duration:	13 Weeks
Study Methodology:	Slide Scoring
Male Study Result:	Positive
Female Study Result:	Positive

Experiment Number: **A53968**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

Species/Strain: **Mouse/P16(INK4A)/(+/-) (C57BL/6)**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Benzene**

CAS Number: **71-43-2**

Date Report Requested: **09/20/2018**

Time Report Requested: **19:06:40**

Tissue: Blood; Sex: Male; Number of Treatments: 65; Time interval between final treatment and cell sampling: 24 h

		MN NCE/1000	
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	15	1.03 ± 0.18	
25.0	15	2.83 ± 0.32	< 0.001 *
50.0	15	2.03 ± 0.29	0.0032 *
100.0	15	4.47 ± 0.47	< 0.001 *
200.0	14	9.46 ± 0.78	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A53968**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

Species/Strain: **Mouse/P16(INK4A)/(+/-) (C57BL/6)**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Benzene**

CAS Number: **71-43-2**

Date Report Requested: **09/20/2018**

Time Report Requested: **19:06:40**

Tissue: Blood; Sex: Female; Number of Treatments: 65; Time interval between final treatment and cell sampling: 24 h

		MN NCE/1000	
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	15	0.53 ± 0.13	
25.0	15	1.23 ± 0.22	0.0020 *
50.0	15	2.67 ± 0.32	< 0.001 *
100.0	15	2.73 ± 0.32	< 0.001 *
200.0	15	3.97 ± 0.37	< 0.001 *
Trend p-Value		< 0.001 *	

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: Corn Oil

** END OF REPORT **