Experiment Number: **A52832**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Dermal**

Species/Strain: **Mouse/TGAC (FVB/N) HOMOZYGOUS**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Melphalan**

CAS Number: **148-82-3**

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

Time Report Requested: **18:28:43**

NTP Study Number:	A52832
Study Duration:	26 Weeks
Study Methodology:	Slide Scoring
Male Study Result:	Positive
Female Study Result:	Positive

Experiment Number: **A52832**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Dermal**

Species/Strain: **Mouse/TGAC (FVB/N) HOMOZYGOUS**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Melphalan**

CAS Number: **148-82-3**

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

Time Report Requested: **18:28:43**

Tissue: Blood; Sex: Male; Number of Treatments: 26; Time interval between final treatment and cell sampling: 24 h

		MN NCE/1000	
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	10	0.55 ± 0.16	
0.25	15	0.77 ± 0.18	0.2363
1.0	11	1.41 ± 0.43	0.0141
4.0	10	2.10 ± 0.38	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

Experiment Number: **A52832**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Dermal**

Species/Strain: **Mouse/TGAC (FVB/N) HOMOZYGOUS**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Melphalan**

CAS Number: **148-82-3**

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

Time Report Requested: **18:28:43**

Tissue: Blood; Sex: Female; Number of Treatments: 26; Time interval between final treatment and cell sampling: 24 h

		MN NCE/1000	
Dose (mg/kg)	**N**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	9	0.39 ± 0.14	
0.25	9	0.22 ± 0.09	0.8172
1.0	11	1.18 ± 0.22	0.0030 *
4.0	13	2.50 ± 0.40	< 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: Methanol

** END OF REPORT **