Experiment Number: A56833
Test Type: Genetic Toxicology - Micronucleus
Route: Inhalation
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: Gallium arsenide
CAS Number: 1303-00-0

NTP Study Number: A56833
Study Duration: 90 Days
Study Methodology: Slide Scoring
Male Study Result: Negative
Female Study Result: Negative
## G04: In Vivo Micronucleus Summary Data

### Test Compound: Gallium arsenide

**CAS Number:** 1303-00-0

---

**Experiment Number:** A56833  
**Test Type:** Genetic Toxicology - Micronucleus  
**Route:** Inhalation  
**Species/Strain:** Mouse/B6C3F1

---

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

### MN NCE/1000

<table>
<thead>
<tr>
<th>Dose (mg/m³)</th>
<th>N</th>
<th>Mean ± SEM</th>
<th>p-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Control¹</td>
<td>10</td>
<td>1.66 ± 0.16</td>
<td>0.7311</td>
</tr>
<tr>
<td>0.1</td>
<td>9</td>
<td>1.32 ± 0.18</td>
<td>0.7089</td>
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<tr>
<td>1.0</td>
<td>10</td>
<td>1.36 ± 0.13</td>
<td>0.6382</td>
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<tr>
<td>10.0</td>
<td>10</td>
<td>1.47 ± 0.13</td>
<td>0.2385</td>
</tr>
<tr>
<td>37.0</td>
<td>10</td>
<td>2.10 ± 1.05</td>
<td>0.2385</td>
</tr>
<tr>
<td>75.0</td>
<td>10</td>
<td>1.26 ± 0.18</td>
<td>0.7705</td>
</tr>
</tbody>
</table>

**Trend p-Value**  
0.5020

**Positive Control²**  
3  
21.37 ± 1.40  
< 0.001 *

---

**Trial Summary:** Negative
### G04: In Vivo Micronucleus Summary Data

TestCompound: **Gallium arsenide**  
CAS Number: **1303-00-0**  

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

<table>
<thead>
<tr>
<th>Dose (mg/m3)</th>
<th>N</th>
<th>Mean ± SEM</th>
<th>p-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Control</td>
<td>10</td>
<td>0.66 ± 0.12</td>
<td>0.3847</td>
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<tr>
<td>0.1</td>
<td>10</td>
<td>0.70 ± 0.10</td>
<td>0.4836</td>
</tr>
<tr>
<td>1.0</td>
<td>10</td>
<td>0.67 ± 0.12</td>
<td>0.4836</td>
</tr>
<tr>
<td>10.0</td>
<td>10</td>
<td>0.85 ± 0.10</td>
<td>0.1078</td>
</tr>
<tr>
<td>37.0</td>
<td>10</td>
<td>0.68 ± 0.09</td>
<td>0.4487</td>
</tr>
<tr>
<td>75.0</td>
<td>9</td>
<td>0.81 ± 0.13</td>
<td>0.1692</td>
</tr>
</tbody>
</table>

**Trend p-Value:** 0.2380

**Trial Summary:** Negative
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: Air
2: 0.2 mg/m3 Urne

** END OF REPORT **