

Experiment Number: 005648

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Methyl salicylate

CAS Number: 119-36-8

Date Report Requested: 09/14/2018

Time Report Requested: 00:42:48

**NTP Study Number:**

005648

**Study Result:**

Weakly Positive

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Methyl salicylate  
CAS Number: 119-36-8

Date Report Requested: 09/14/2018

Time Report Requested: 00:42:48

## Strain: TA100

| Dose (ug/Plate)               | Without S9 | Without S9           | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|----------------------|------------|-----------------|-----------------|
| Vehicle Control <sup>1</sup>  | 115 ± 7.7  | 100 ± 8.5            | 125 ± 8.5  | 122 ± 9.1       | 144 ± 10.7      |
| 0.1                           |            |                      |            |                 | 161 ± 6.2       |
| 0.3                           |            |                      | 111 ± 3.8  |                 | 155 ± 2.3       |
| 1.0                           |            |                      | 143 ± 5.3  | 119 ± 4.3       | 150 ± 14.0      |
| 3.0                           | 106 ± 4.8  | 100 ± 6.7            | 140 ± 2.2  | 121 ± 3.4       | 134 ± 8.3       |
| 10.0                          | 109 ± 2.7  | 97 ± 3.5             | 128 ± 9.6  | 116 ± 5.3       | 127 ± 8.9       |
| 33.0                          | 122 ± 5.2  | 97 ± 9.1             | 117 ± 3.8  | 100 ± 4.2       | 137 ± 13.1      |
| 100.0                         | 119 ± 5.5  | 9 ± 1.7 <sup>s</sup> | 115 ± 11.9 | 8 ± 1.7         | 138 ± 6.7       |
| 333.0                         | 104 ± 10.1 | Toxic                | 100 ± 11.9 |                 |                 |
| Trial Summary                 | Negative   | Negative             | Negative   | Negative        | Negative        |
| Positive Control <sup>2</sup> |            |                      |            |                 |                 |
| Positive Control <sup>3</sup> |            |                      |            | 445 ± 16.7      | 531 ± 3.3       |
| Positive Control <sup>4</sup> |            |                      |            |                 |                 |
| Positive Control <sup>5</sup> | 734 ± 20.6 | 353 ± 19.7           | 443 ± 12.0 |                 |                 |

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Test Compound: Methyl salicylate

CAS Number: 119-36-8

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## Strain: TA100

| Dose (ug/Plate)               | With 30% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|-----------------|---------------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 124 ± 4.4       | 131 ± 3.8           | 125 ± 0.9           | 129 ± 7.5           |
| 0.1                           |                 |                     | 145 ± 5.6           |                     |
| 0.3                           |                 |                     | 150 ± 6.3           |                     |
| 1.0                           | 119 ± 14.2      | 136 ± 4.1           | 145 ± 3.3           | 135 ± 6.0           |
| 3.0                           | 117 ± 4.5       | 131 ± 15.5          | 141 ± 3.5           | 128 ± 6.9           |
| 10.0                          | 126 ± 4.9       | 123 ± 3.8           | 140 ± 6.1           | 132 ± 7.6           |
| 33.0                          | 120 ± 5.9       | 38 ± 3.8            | 129 ± 1.5           | 130 ± 7.0           |
| 100.0                         | 111 ± 10.3      | 0 ± 0.0             | 122 ± 9.8           | 132 ± 2.0           |
| 333.0                         |                 |                     |                     |                     |
| Trial Summary                 | Negative        | Negative            | Negative            | Negative            |
| Positive Control <sup>2</sup> |                 | 744 ± 43.5          | 783 ± 16.9          |                     |
| Positive Control <sup>3</sup> |                 |                     |                     | 542 ± 22.7          |
| Positive Control <sup>4</sup> | 373 ± 1.2       |                     |                     |                     |
| Positive Control <sup>5</sup> |                 |                     |                     |                     |

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## G06: Ames Summary Data

Test Compound: Methyl salicylate  
CAS Number: 119-36-8

Date Report Requested: 09/14/2018

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## Strain: TA1535

| Dose (ug/Plate)               | Without S9 | Without S9           | Without S9 | With 10% Rat S9      | With 10% Rat S9 |
|-------------------------------|------------|----------------------|------------|----------------------|-----------------|
| Vehicle Control <sup>1</sup>  | 14 ± 2.5   | 10 ± 1.5             | 12 ± 1.2   | 11 ± 1.2             | 11 ± 1.3        |
| 0.1                           |            |                      |            |                      | 12 ± 0.3        |
| 0.3                           |            |                      | 11 ± 3.4   |                      | 10 ± 1.5        |
| 1.0                           |            |                      | 12 ± 4.4   | 11 ± 2.2             | 8 ± 0.6         |
| 3.0                           | 12 ± 0.3   | 10 ± 1.2             | 11 ± 1.5   | 8 ± 1.9              | 13 ± 1.9        |
| 10.0                          | 11 ± 1.0   | 8 ± 0.6              | 9 ± 1.2    | 7 ± 1.7              | 11 ± 2.7        |
| 33.0                          | 7 ± 1.2    | 9 ± 1.9              | 10 ± 1.3   | 3 ± 1.5              | 11 ± 2.7        |
| 100.0                         | 8 ± 1.5    | 1 ± 0.7 <sup>s</sup> | 11 ± 2.3   | 0 ± 0.0 <sup>s</sup> | 10 ± 2.3        |
| 333.0                         | 8 ± 1.5    | Toxic                | 8 ± 2.1    |                      |                 |
| Trial Summary                 | Negative   | Negative             | Negative   | Negative             | Negative        |
| Positive Control <sup>3</sup> |            |                      |            |                      |                 |
| Positive Control <sup>4</sup> |            |                      |            | 103 ± 10.4           | 75 ± 1.5        |
| Positive Control <sup>6</sup> |            |                      |            |                      |                 |
| Positive Control <sup>5</sup> | 447 ± 24.0 | 374 ± 10.9           | 453 ± 17.6 |                      |                 |

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## Strain: TA1535

| Dose (ug/Plate)               | With 30% Rat S9 | With 10% Hamster S9  | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|-----------------|----------------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 14 ± 1.5        | 8 ± 1.9              | 10 ± 0.0            | 13 ± 0.6            |
| 0.1                           |                 |                      | 8 ± 1.3             |                     |
| 0.3                           |                 |                      | 8 ± 1.2             |                     |
| 1.0                           | 15 ± 0.7        | 7 ± 2.6              | 10 ± 0.7            | 10 ± 1.0            |
| 3.0                           | 11 ± 1.2        | 9 ± 1.2              | 9 ± 1.8             | 13 ± 0.6            |
| 10.0                          | 14 ± 2.4        | 7 ± 0.3              | 12 ± 1.8            | 11 ± 3.6            |
| 33.0                          | 12 ± 1.5        | 2 ± 0.6              | 6 ± 1.3             | 11 ± 1.2            |
| 100.0                         | 8 ± 1.2         | 0 ± 0.0 <sup>s</sup> | 8 ± 1.8             | 11 ± 0.9            |
| 333.0                         |                 |                      |                     |                     |
| Trial Summary                 | Negative        | Negative             | Negative            | Negative            |
| Positive Control <sup>3</sup> |                 |                      | 80 ± 3.0            |                     |
| Positive Control <sup>4</sup> |                 |                      |                     | 260 ± 7.9           |
| Positive Control <sup>6</sup> | 98 ± 7.8        | 164 ± 6.1            |                     |                     |
| Positive Control <sup>5</sup> |                 |                      |                     |                     |

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## G06: Ames Summary Data

Test Compound: Methyl salicylate  
CAS Number: 119-36-8

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Time Report Requested: 00:42:48

## Strain: TA97

| Dose (ug/Plate)               | Without S9 | Without S9            | Without S9 | With 10% Rat S9      | With 10% Rat S9 |
|-------------------------------|------------|-----------------------|------------|----------------------|-----------------|
| Vehicle Control <sup>1</sup>  | 195 ± 16.2 | 154 ± 3.0             | 186 ± 6.6  | 193 ± 10.7           | 179 ± 8.5       |
| 0.1                           |            |                       | 167 ± 9.8  |                      | 182 ± 7.8       |
| 0.3                           |            |                       | 190 ± 9.4  |                      | 188 ± 5.8       |
| 1.0                           |            | 159 ± 3.0             | 202 ± 5.4  | 202 ± 5.5            | 185 ± 12.2      |
| 3.0                           | 193 ± 16.7 | 166 ± 4.6             | 179 ± 4.9  | 166 ± 22.0           | 179 ± 3.2       |
| 10.0                          | 212 ± 7.0  | 164 ± 1.5             | 201 ± 10.7 | 179 ± 23.3           | 193 ± 15.3      |
| 33.0                          | 192 ± 10.4 | 163 ± 1.8             | 193 ± 8.4  | 0 ± 0.0              | 175 ± 7.8       |
| 66.0                          |            |                       |            |                      |                 |
| 100.0                         | 210 ± 2.1  | 12 ± 3.4 <sup>s</sup> | 186 ± 8.2  | 0 ± 0.0 <sup>s</sup> | 194 ± 4.7       |
| 166.0                         |            |                       |            |                      |                 |
| 333.0                         | 116 ± 4.6  |                       |            |                      |                 |
| Trial Summary                 | Negative   | Negative              | Negative   | Negative             | Negative        |
| Positive Control <sup>2</sup> |            |                       |            |                      |                 |
| Positive Control <sup>3</sup> |            |                       |            | 389 ± 12.3           | 373 ± 21.7      |
| Positive Control <sup>4</sup> |            |                       |            |                      |                 |
| Positive Control <sup>7</sup> | 420 ± 11.9 | 408 ± 14.7            | 430 ± 10.5 |                      |                 |

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Test Compound: Methyl salicylate  
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## Strain: TA97

| Dose (ug/Plate)               | With 30% Rat S9 | With 5% Hamster S9 | With 10% Hamster S9  | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|--------------------|----------------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 208 ± 3.5       | 201 ± 16.2         | 171 ± 14.3           | 175 ± 0.3           | 183 ± 9.5           |
| 0.1                           |                 |                    |                      | 208 ± 9.1           |                     |
| 0.3                           |                 |                    |                      | 189 ± 13.2          |                     |
| 1.0                           | 203 ± 7.4       |                    | 190 ± 14.4           | 198 ± 10.4          |                     |
| 3.0                           | 217 ± 4.3       | 188 ± 6.5          | 205 ± 14.1           | 196 ± 7.5           | 188 ± 10.6          |
| 10.0                          | 212 ± 8.1       | 187 ± 11.6         | 369 ± 17.3           | 204 ± 10.0          | 191 ± 5.5           |
| 33.0                          | 196 ± 6.4       | 189 ± 9.8          | 9 ± 2.8 <sup>s</sup> | 220 ± 6.5           | 225 ± 10.2          |
| 66.0                          |                 | 258 ± 9.7          |                      |                     | 263 ± 42.5          |
| 100.0                         | 208 ± 12.4      | 182 ± 27.7         | 0 ± 0.0 <sup>s</sup> | 381 ± 14.3          | 260 ± 17.7          |
| 166.0                         |                 | 21 ± 6.2           |                      |                     | 127 ± 21.7          |
| 333.0                         |                 |                    |                      |                     |                     |
| Trial Summary                 | Negative        | Equivocal          | Weakly Positive      | Weakly Positive     | Equivocal           |
| Positive Control <sup>2</sup> |                 | 565 ± 19.1         | 936 ± 29.2           | 445 ± 21.4          | 393 ± 7.1           |
| Positive Control <sup>3</sup> |                 |                    |                      |                     |                     |
| Positive Control <sup>4</sup> | 438 ± 12.3      |                    |                      |                     |                     |
| Positive Control <sup>7</sup> |                 |                    |                      |                     |                     |

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Test Compound: Methyl salicylate

CAS Number: 119-36-8

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## Strain: TA97

| Dose (ug/Plate)               | With 30% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|---------------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 169 ± 4.5           | 157 ± 9.3           | 166 ± 4.1           |
| 0.1                           |                     |                     |                     |
| 0.3                           |                     |                     |                     |
| 1.0                           | 180 ± 7.4           |                     |                     |
| 3.0                           | 165 ± 3.2           | 172 ± 6.2           | 200 ± 5.9           |
| 10.0                          | 165 ± 6.1           | 194 ± 6.6           | 195 ± 7.8           |
| 33.0                          | 159 ± 9.0           | 189 ± 18.0          | 183 ± 6.9           |
| 66.0                          |                     | 228 ± 10.5          | 200 ± 5.3           |
| 100.0                         | 214 ± 7.3           | 259 ± 0.5           | 245 ± 7.5           |
| 166.0                         |                     | 264 ± 38.2          | 216 ± 16.9          |
| 333.0                         |                     |                     |                     |
| Trial Summary                 | Equivocal           | Weakly Positive     | Equivocal           |
| Positive Control <sup>2</sup> |                     |                     |                     |
| Positive Control <sup>3</sup> | 431 ± 15.9          | 395 ± 2.9           | 562 ± 20.2          |
| Positive Control <sup>4</sup> |                     |                     |                     |
| Positive Control <sup>7</sup> |                     |                     |                     |



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## Strain: TA98

| Dose (ug/Plate)               | Without S9 | Without S9           | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|----------------------|------------|-----------------|-----------------|
| Vehicle Control <sup>1</sup>  | 27 ± 5.1   | 15 ± 2.0             | 19 ± 2.9   | 20 ± 2.6        | 27 ± 1.2        |
| 0.1                           |            |                      |            |                 | 18 ± 2.0        |
| 0.3                           |            |                      | 16 ± 2.0   |                 | 27 ± 6.2        |
| 1.0                           |            |                      | 20 ± 2.3   | 22 ± 3.0        | 27 ± 3.8        |
| 3.0                           | 32 ± 2.0   | 15 ± 0.9             | 26 ± 1.5   | 16 ± 0.3        | 30 ± 5.0        |
| 10.0                          | 31 ± 1.9   | 22 ± 2.3             | 19 ± 4.5   | 26 ± 2.3        | 16 ± 1.2        |
| 33.0                          | 31 ± 4.7   | 23 ± 2.2             | 23 ± 4.6   | 15 ± 2.7        | 29 ± 4.2        |
| 100.0                         | 32 ± 2.9   | 18 ± 3.0             | 18 ± 5.2   | 9 ± 0.3         | 19 ± 0.3        |
| 333.0                         | 23 ± 1.2   | 1 ± 0.3 <sup>s</sup> | 12 ± 2.0   |                 |                 |
| Trial Summary                 | Negative   | Negative             | Negative   | Negative        | Negative        |
| Positive Control <sup>2</sup> |            |                      |            |                 |                 |
| Positive Control <sup>3</sup> |            |                      |            | 408 ± 18.6      | 330 ± 28.6      |
| Positive Control <sup>8</sup> | 527 ± 18.6 | 503 ± 17.9           | 848 ± 55.5 |                 |                 |

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## Strain: TA98

| Dose (ug/Plate)               | With 30% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|-----------------|---------------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 23 ± 1.2        | 18 ± 1.9            | 27 ± 3.0            | 26 ± 4.3            |
| 0.1                           |                 |                     | 20 ± 2.3            |                     |
| 0.3                           |                 |                     | 25 ± 4.1            |                     |
| 1.0                           | 31 ± 4.7        | 19 ± 1.5            | 22 ± 1.8            | 25 ± 2.3            |
| 3.0                           | 24 ± 1.3        | 22 ± 1.7            | 22 ± 5.3            | 29 ± 3.7            |
| 10.0                          | 24 ± 2.7        | 19 ± 0.9            | 21 ± 1.7            | 27 ± 1.3            |
| 33.0                          | 25 ± 0.7        | 16 ± 2.0            | 22 ± 2.6            | 26 ± 7.2            |
| 100.0                         | 24 ± 4.0        | 6 ± 0.7             | 24 ± 2.8            | 18 ± 1.3            |
| 333.0                         |                 |                     |                     |                     |
| Trial Summary                 | Negative        | Negative            | Negative            | Negative            |
| Positive Control <sup>2</sup> |                 | 689 ± 22.3          | 624 ± 33.5          |                     |
| Positive Control <sup>3</sup> | 121 ± 7.4       |                     |                     | 486 ± 11.4          |
| Positive Control <sup>8</sup> |                 |                     |                     |                     |

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## Strain: TA104

| Dose (ug/Plate)               | Without S9 | Without S9            | Without S9 | With 5% Rat S9 | With 10% Rat S9      |
|-------------------------------|------------|-----------------------|------------|----------------|----------------------|
| Vehicle Control <sup>1</sup>  | 334 ± 17.2 | 326 ± 14.7            | 320 ± 9.8  | 319 ± 20.5     | 466 ± 38.2           |
| 0.1                           |            |                       | 309 ± 13.0 | 349 ± 5.0      |                      |
| 0.3                           |            |                       | 335 ± 10.4 | 364 ± 21.1     |                      |
| 1.0                           |            | 326 ± 10.5            | 367 ± 11.8 | 360 ± 12.3     | 469 ± 14.5           |
| 3.0                           | 325 ± 8.0  | 376 ± 5.5             | 354 ± 27.0 | 348 ± 4.0      | 441 ± 18.2           |
| 10.0                          | 352 ± 11.1 | 329 ± 11.7            | 391 ± 8.6  | 310 ± 25.4     | 410 ± 19.2           |
| 33.0                          | 347 ± 16.8 | 284 ± 11.0            | 377 ± 4.9  | 277 ± 8.7      | 214 ± 6.1            |
| 66.0                          |            |                       |            | 238 ± 12.3     |                      |
| 100.0                         | 355 ± 9.1  | 22 ± 3.2 <sup>s</sup> | 312 ± 4.1  |                | 0 ± 0.0 <sup>s</sup> |
| 333.0                         | 247 ± 9.8  |                       |            |                |                      |
| Trial Summary                 | Negative   | Equivocal             | Equivocal  | Negative       | Negative             |
| Positive Control <sup>4</sup> |            |                       |            |                |                      |
| Positive Control <sup>6</sup> |            |                       |            | 819 ± 30.3     | 1008 ± 17.4          |
| Positive Control <sup>9</sup> | 637 ± 24.4 | 529 ± 21.9            | 811 ± 39.7 |                |                      |

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## Strain: TA104

| Dose (ug/Plate)               | With 10% Rat S9 | With 30% Rat S9 | With 5% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|-----------------|--------------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 487 ± 16.8      | 429 ± 12.7      | 296 ± 1.9          | 368 ± 11.8          | 344 ± 31.8          |
| 0.1                           | 431 ± 6.9       |                 | 325 ± 4.3          |                     | 453 ± 4.0           |
| 0.3                           | 442 ± 14.6      |                 | 298 ± 14.5         |                     | 350 ± 19.8          |
| 1.0                           | 542 ± 13.7      | 456 ± 10.0      | 277 ± 16.0         | 408 ± 11.4          | 430 ± 4.6           |
| 3.0                           | 542 ± 7.7       | 485 ± 13.7      | 300 ± 3.0          | 391 ± 7.2           | 453 ± 13.9          |
| 10.0                          | 544 ± 17.9      | 494 ± 6.8       | 292 ± 3.6          | 326 ± 11.1          | 466 ± 29.2          |
| 33.0                          | 537 ± 27.5      | 488 ± 25.3      | 253 ± 15.3         | 172 ± 10.0          | 474 ± 6.0           |
| 66.0                          |                 |                 | 222 ± 11.1         |                     |                     |
| 100.0                         | 398 ± 70.3      | 466 ± 17.9      |                    | 0 ± 0.0             | 312 ± 21.4          |
| 333.0                         |                 |                 |                    |                     |                     |
| Trial Summary                 | Equivocal       | Equivocal       | Negative           | Negative            | Equivocal           |
| Positive Control <sup>4</sup> |                 |                 | 1059 ± 35.6        | 2157 ± 156.9        | 1003 ± 33.6         |
| Positive Control <sup>6</sup> | 1045 ± 9.9      | 912 ± 3.6       |                    |                     |                     |
| Positive Control <sup>9</sup> |                 |                 |                    |                     |                     |

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## Strain: TA104

| Dose (ug/Plate)               | With 10% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|---------------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 305 ± 16.6          | 418 ± 9.7           | 308 ± 19.1          |
| 0.1                           | 323 ± 8.0           |                     | 327 ± 11.8          |
| 0.3                           | 314 ± 17.2          |                     | 306 ± 10.4          |
| 1.0                           | 283 ± 9.0           | 388 ± 11.3          | 313 ± 7.9           |
| 3.0                           | 328 ± 5.0           | 415 ± 26.0          | 345 ± 14.2          |
| 10.0                          | 285 ± 41.9          | 458 ± 5.4           | 364 ± 9.0           |
| 33.0                          | 252 ± 17.4          | 433 ± 4.0           | 329 ± 15.7          |
| 66.0                          | 215 ± 8.9           |                     | 301 ± 13.4          |
| 100.0                         |                     | 397 ± 16.8          |                     |
| 333.0                         |                     |                     |                     |
| Trial Summary                 | Negative            | Negative            | Equivocal           |
| Positive Control <sup>4</sup> | 1018 ± 9.0          | 936 ± 15.3          | 917 ± 23.6          |
| Positive Control <sup>6</sup> |                     |                     |                     |
| Positive Control <sup>9</sup> |                     |                     |                     |

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## LEGEND

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Values given as Mean or Mean  $\pm$  Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

- 1: Vehicle Control: Dimethyl Sulfoxide
- 2: 0.5 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 5.0 ug/Plate Sodium Azide
- 6: 5.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- 9: 250.0 ug/Plate Methyl Methane Sulfonate
- s: Slight Toxicity

\*\* END OF REPORT \*\*