

グリシドールのマウスを用いた
吸入による2週間毒性試験報告書

試験番号：0308

APPENDIX

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(2-WEEK STUDY)
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APPENDIX A 1

CLINICAL OBSERVATION : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 1

| Clinical sign | Group Name | Administration Week-day | | | | |
|-------------------------|------------|-------------------------|-----|-----|-----|-----|
| | | 1-2 | 1-4 | 1-7 | 2-3 | 2-7 |
| | | 1 | 1 | 1 | 1 | 1 |
| DEATH | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 3 | 4 | 7 | 8 |
| | 300.0ppm | 3 | - | - | - | - |
| | 600.0ppm | 10 | - | - | - | - |
| LOCOMOTOR MOVEMENT DECR | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 1 | 0 | 1 | 0 |
| | 300.0ppm | 7 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |
| PILOERECTION | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 0 | 0 | 1 | 0 |
| | 300.0ppm | 0 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |
| FROG BELLY | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 1 | 0 | 0 | 0 |
| | 300.0ppm | 9 | - | - | - | - |
| | 600.0ppm | 10 | - | - | - | - |
| GASPING | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 300.0ppm | 7 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |
| ABNORMAL RESPIRATION | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 1 | 0 | 0 | 0 |
| | 300.0ppm | 7 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : MALE

PAGE : 2

| Clinical sign | Group Name | Administration Week-day | | | | |
|------------------------|------------|-------------------------|-----|-----|-----|-----|
| | | 1-2 | 1-4 | 1-7 | 2-3 | 2-7 |
| | | 1 | 1 | 1 | 1 | 1 |
| BRADYPNEA | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 300.0ppm | 4 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |
| DEEP BREATHING | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 1 | 0 | 0 | 0 |
| | 300.0ppm | 3 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |
| ABNORMAL RESPIRA.SOUND | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 2 | 3 | 0 | 0 | 0 |
| | 300.0ppm | 7 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |
| SUBNORMAL TEMP | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 1 | 0 | 0 | 0 |
| | 300.0ppm | 7 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |

(HAN190)

BAIS 3

APPENDIX A 2

CLINICAL OBSERVATION : SUMMARY, MOUSE : FEMALE
(2-WEEK STUDY)

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
 ALL ANIMALS

SEX : FEMALE

PAGE : 3

| Clinical sign | Group Name | Administration Week-day | | | | |
|-------------------------|------------|-------------------------|-----|-----|-----|-----|
| | | 1-2 | 1-4 | 1-7 | 2-3 | 2-7 |
| | | 1 | 1 | 1 | 1 | 1 |
| DEATH | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 3 | 3 | 8 | 9 |
| | 300.0ppm | 6 | - | - | - | - |
| | 600.0ppm | 10 | - | - | - | - |
| LOCOMOTOR MOVEMENT DECR | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 300.0ppm | 3 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |
| FROG BELLY | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 300.0ppm | 9 | - | - | - | - |
| | 600.0ppm | 10 | - | - | - | - |
| GASPING | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 300.0ppm | 3 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |
| IRREGULAR BREATHING | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 300.0ppm | 1 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |
| ABNORMAL RESPIRATION | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 300.0ppm | 4 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1 2

CLINICAL OBSERVATION (SUMMARY)
ALL ANIMALS

SEX : FEMALE

PAGE : 4

| Clinical sign | Group Name | Administration Week-day | | | | |
|------------------------|------------|-------------------------|-----|-----|-----|-----|
| | | 1-2 | 1-4 | 1-7 | 2-3 | 2-7 |
| | | 1 | 1 | 1 | 1 | 1 |
| BRADYPNEA | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 300.0ppm | 3 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |
| ABNORMAL RESPIRA.SOUND | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 1 | 0 | 0 | 0 | 0 |
| | 300.0ppm | 3 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |
| SUBNORMAL TEMP | 0ppm | 0 | 0 | 0 | 0 | 0 |
| | 37.5ppm | 0 | 0 | 0 | 0 | 0 |
| | 75.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 150.0ppm | 0 | 0 | 0 | 0 | 0 |
| | 300.0ppm | 3 | - | - | - | - |
| | 600.0ppm | 0 | - | - | - | - |

APPENDIX B 1

BODY WEIGHT CHANGES :SUMMARY, MOUSE : MALE
(2-WEEK STUDY)

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 2
 SEX : MALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 1

| Group Name | Administration week-day | | | | | |
|------------|-------------------------|-------------|-------------|-------------|-------------|-------------|
| | 0-0 | 1-2 | 1-4 | 1-7 | 2-3 | 2-7 |
| 0ppm | 23.8± 0.8 | 25.0± 1.0 | 25.1± 1.0 | 25.3± 0.9 | 25.6± 1.0 | 26.4± 1.1 |
| 37.5ppm | 23.8± 0.8 | 24.4± 1.0 | 24.4± 0.8 | 24.7± 1.0 | 24.9± 0.8 | 25.2± 1.0* |
| 75.0ppm | 23.9± 0.7 | 24.0± 0.8 | 23.8± 0.8* | 24.2± 0.8 | 24.4± 0.9 | 25.0± 1.0* |
| 150.0ppm | 23.8± 0.8 | 21.6± 1.3** | 19.4± 1.6** | 20.6± 1.6** | 20.3± 3.1** | 23.0± 0.5 ? |
| 300.0ppm | 23.9± 0.7 | 21.8± 0.4** | - | - | - | - |
| 600.0ppm | 23.8± 0.8 | - | - | - | - | - |

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

APPENDIX B 2

BODY WEIGHT CHANGES : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 UNIT : g
 REPORT TYPE : A1 2
 SEX : FEMALE

BODY WEIGHT CHANGES (SUMMARY)
 ALL ANIMALS

PAGE : 2

| Group Name | Administration week-day | | | | | |
|------------|-------------------------|-------------|-------------|-------------|-------------|-------------|
| | 0-0 | 1-2 | 1-4 | 1-7 | 2-3 | 2-7 |
| 0ppm | 19.3± 0.7 | 20.3± 0.7 | 20.6± 0.5 | 20.7± 0.8 | 21.2± 0.8 | 21.6± 0.8 |
| 37.5ppm | 19.3± 0.6 | 19.4± 1.2 | 20.3± 0.5 | 20.6± 0.5 | 20.5± 0.6 | 20.6± 0.7** |
| 75.0ppm | 19.3± 0.6 | 19.0± 0.7** | 19.7± 0.6* | 20.3± 0.5 | 20.3± 0.8* | 20.8± 0.7* |
| 150.0ppm | 19.3± 0.7 | 17.1± 0.9** | 15.5± 1.7** | 16.7± 1.2** | 15.5± 3.6 ? | 18.3± 0.0 ? |
| 300.0ppm | 19.3± 0.6 | 17.3± 0.4** | - | - | - | - |
| 600.0ppm | 19.3± 0.6 | - | - | - | - | - |

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied, because No. of data in this group is less than 3.

APPENDIX C 1

FOOD CONSUMPTION CHANGES : SUMMARY, MOUSE : MALE (2-WEEK STUDY)

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 2
SEX : FEMALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 2

| Group Name | Administration week-day(effective) | |
|------------|------------------------------------|------------|
| | 1-7(6) | 2-7(7) |
| 0ppm | 3.8± 0.3 | 3.7± 0.2 |
| 37.5ppm | 3.8± 0.3 | 3.4± 0.2** |
| 75.0ppm | 3.7± 0.4 | 3.5± 0.2* |
| 150.0ppm | 2.4± 0.6** | 3.4± 0.0 ? |
| 300.0ppm | - | - |
| 600.0ppm | - | - |

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

APPENDIX C 2

FOOD CONSUMPTION CHANGES : SUMMARY, MOUSE : FEMALE (2-WEEK STUDY)

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
UNIT : g
REPORT TYPE : A1 2
SEX : MALE

FOOD CONSUMPTION CHANGES (SUMMARY)
ALL ANIMALS

PAGE : 1

| Group Name | Administration week-day(effective) | |
|------------|------------------------------------|------------|
| | 1-7(6) | 2-7(7) |
| 0ppm | 4.3± 0.2 | 4.2± 0.2 |
| 37.5ppm | 4.1± 0.2 | 4.1± 0.3 |
| 75.0ppm | 3.9± 0.3** | 3.9± 0.2 |
| 150.0ppm | 2.4± 0.5** | 3.9± 0.2 ? |
| 300.0ppm | - | - |
| 600.0ppm | - | - |

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$ Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

APPENDIX D 1

HEMATOLOGY : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (3W)

REPORT TYPE : A1

PAGE : 1

| Group Name | NO. of Animals | RED BLOOD CELL 10 ⁶ /μl | | HEMOGLOBIN g/dl | | HEMATOCRIT % | | MCV fl | | MCH pg | | MCHC g/dl | | PLATELET 10 ³ /μl | |
|------------|-------------------|---------------------------------------|--------|--------------------|-------|-----------------|-------|-----------|-------|-----------|-------|--------------|-------|---------------------------------|-------|
| 0ppm | 5 | 10.99± | 0.17 | 16.8± | 0.3 | 51.8± | 1.6 | 47.0± | 0.8 | 15.3± | 0.2 | 32.6± | 0.6 | 1251± | 103 |
| 37.5ppm | 5 | 10.99± | 0.17 | 16.5± | 0.2 | 51.5± | 0.5 | 46.8± | 0.5 | 15.0± | 0.3 | 32.0± | 0.6 | 1255± | 57 |
| 75.0ppm | 5 | 11.04± | 0.39 | 16.6± | 0.9 | 51.3± | 1.9 | 46.5± | 0.4 | 15.0± | 0.3 | 32.3± | 0.6 | 1265± | 51 |
| 150.0ppm | 2 | 10.56± | 0.62 ? | 15.5± | 0.9 ? | 48.7± | 2.3 ? | 46.1± | 0.6 ? | 14.6± | 0.0 ? | 31.7± | 0.4 ? | 1282± | 147 ? |
| 300.0ppm | 0 | - | | - | | - | | - | | - | | - | | - | |
| 600.0ppm | 0 | - | | - | | - | | - | | - | | - | | - | |

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied, because No. of data in this group is less than 3.

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

REPORT TYPE : A1

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (3W)

PAGE : 2

| Group Name | NO. of Animals | WBC 10 ³ /μl | | Differential N-BAND | | WBC (%) N-SEG | | EOSINO | | BASO | | MONO | | LYMPHO | | OTHERS | |
|------------|-------------------|----------------------------|--------|------------------------|-----|------------------|-----|--------|-----|------|-----|------|-----|--------|-----|--------|-----|
| 0ppm | 5 | 0.73± | 0.37 | 0± | 0 | 14± | 5 | 1± | 1 | 0± | 0 | 3± | 2 | 82± | 6 | 0± | 0 |
| 37.5ppm | 5 | 0.97± | 0.09 | 0± | 0 | 8± | 2* | 0± | 1 | 0± | 0 | 2± | 2 | 89± | 4* | 0± | 0 |
| 75.0ppm | 5 | 0.96± | 0.38 | 0± | 0 | 9± | 2* | 0± | 0 | 0± | 0 | 2± | 1 | 89± | 3* | 0± | 0 |
| 150.0ppm | 2 | 0.68± | 0.18 ? | 0± | 0 ? | 11± | 2 ? | 2± | 0 ? | 0± | 0 ? | 2± | 0 ? | 86± | 2 ? | 0± | 0 ? |
| 300.0ppm | 0 | - | | - | | - | | - | | - | | - | | - | | - | |
| 600.0ppm | 0 | - | | - | | - | | - | | - | | - | | - | | - | |

Significant difference : * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied, because No. of data in this group is less than 3.

APPENDIX D 2

HEMATOLOGY : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (3W)

REPORT TYPE : A1

PAGE : 3

| Group Name | NO. of Animals | RED BLOOD CELL 10 ⁶ /μl | HEMOGLOBIN g/dl | HEMATOCRIT % | MCV fl | MCH pg | MCHC g/dl | PLATELET 10 ³ /μl |
|------------|-------------------|---------------------------------------|--------------------|-----------------|-------------|-------------|--------------|---------------------------------|
| 0ppm | 5 | 10.65± 0.25 | 15.9± 0.6 | 50.0± 1.3 | 46.9± 0.5 | 14.9± 0.4 | 31.8± 1.0 | 1103± 34 |
| 37.5ppm | 5 | 10.53± 0.33 | 15.9± 0.6 | 49.5± 1.5 | 46.9± 0.3 | 15.1± 0.4 | 32.1± 0.8 | 1077± 124 |
| 75.0ppm | 5 | 10.64± 0.29 | 15.9± 0.2 | 50.2± 1.1 | 47.2± 1.1 | 15.0± 0.5 | 31.6± 0.6 | 1064± 114 |
| 150.0ppm | 1 | 10.04± 0.00 ? | 14.7± 0.0 ? | 45.7± 0.0 ? | 45.5± 0.0 ? | 14.6± 0.0 ? | 32.2± 0.0 ? | 1390± 0 ? |
| 300.0ppm | 0 | - | - | - | - | - | - | - |
| 600.0ppm | 0 | - | - | - | - | - | - | - |

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied, because No. of data in this group is less than 3.

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

HEMATOLOGY (SUMMARY)
 ALL ANIMALS (3W)

REPORT TYPE : A1

PAGE : 4

| Group Name | NO. of Animals | WBC 10 ³ /μL | | Differential N-BAND | | WBC (%) N-SEG | | EOSINO | | BASO | | MONO | | LYMPHO | | OTHERS | |
|------------|-------------------|----------------------------|--------|------------------------|-----|------------------|-----|--------|-----|------|-----|------|-----|--------|-----|--------|-----|
| 0ppm | 5 | 0.81± | 0.36 | 0± | 0 | 12± | 3 | 0± | 1 | 0± | 0 | 2± | 1 | 85± | 4 | 0± | 0 |
| 37.5ppm | 5 | 0.62± | 0.21 | 0± | 1 | 13± | 3 | 0± | 0 | 0± | 0 | 3± | 2 | 84± | 4 | 0± | 0 |
| 75.0ppm | 5 | 0.81± | 0.32 | 0± | 0 | 11± | 2 | 1± | 1 | 0± | 0 | 2± | 1 | 86± | 3 | 0± | 0 |
| 150.0ppm | 1 | 0.95± | 0.00 ? | 0± | 0 ? | 19± | 0 ? | 0± | 0 ? | 0± | 0 ? | 2± | 0 ? | 79± | 0 ? | 0± | 0 ? |
| 300.0ppm | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 600.0ppm | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Significant difference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied, because No. of data in this group is less than 3.

APPENDIX E 1

BIOCHEMISTRY : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (3W)

REPORT TYPE : A1

PAGE : 1

| Group Name | NO. of Animals | TOTAL PROTEIN g/dl | | ALBUMIN g/dl | | A/G RATIO | | T-BILIRUBIN mg/dl | | GLUCOSE mg/dl | | T-CHOLESTEROL mg/dl | | TRIGLYCERIDE mg/dl | |
|------------|-------------------|-----------------------|-------|-----------------|-------|-----------|-------|----------------------|--------|------------------|------|------------------------|-----|-----------------------|-----|
| 0ppm | 5 | 5.3± | 0.2 | 3.1± | 0.1 | 1.4± | 0.1 | 0.20± | 0.05 | 237± | 26 | 90± | 5 | 24± | 4 |
| 37.5ppm | 5 | 5.1± | 0.1* | 3.0± | 0.1 | 1.4± | 0.1 | 0.17± | 0.02 | 226± | 9 | 79± | 4** | 19± | 4 |
| 75.0ppm | 5 | 5.1± | 0.1 | 3.0± | 0.1 | 1.4± | 0.1 | 0.18± | 0.05 | 234± | 25 | 89± | 5 | 22± | 4 |
| 150.0ppm | 2 | 5.0± | 0.1 ? | 2.9± | 0.1 ? | 1.4± | 0.1 ? | 0.18± | 0.05 ? | 224± | 16 ? | 94± | 2 ? | 17± | 2 ? |
| 300.0ppm | 0 | - | | - | | - | | - | | - | | - | | - | |
| 600.0ppm | 0 | - | | - | | - | | - | | - | | - | | - | |

Significant defference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (3W)

PAGE : 2

| Group Name | NO. of Animals | PHOSPHOLIPID mg/dl | | GOT IU/l | | GPT IU/l | | LDH IU/l | | ALP IU/l | | G-GTP IU/l | | CPK IU/l | |
|------------|-------------------|-----------------------|-----|-------------|-----|-------------|-----|-------------|-------|-------------|------|---------------|-----|-------------|-----|
| 0ppm | 5 | 178± | 12 | 46± | 7 | 23± | 8 | 388± | 149 | 285± | 24 | 1± | 1 | 96± | 44 |
| 37.5ppm | 5 | 153± | 8** | 42± | 3 | 16± | 2 | 291± | 44 | 301± | 6 | 2± | 1 | 92± | 32 |
| 75.0ppm | 5 | 167± | 11 | 41± | 2 | 15± | 2 | 252± | 43 | 288± | 10 | 1± | 1 | 72± | 44 |
| 150.0ppm | 2 | 154± | 1 ? | 37± | 0 ? | 17± | 2 ? | 249± | 119 ? | 296± | 28 ? | 1± | 1 ? | 43± | 4 ? |
| 300.0ppm | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 600.0ppm | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Significant defference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : MALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (3W)

PAGE : 3

| Group Name | NO. of Animals | UREA NITROGEN mg/dl | | SODIUM mEq/l | | POTASSIUM mEq/l | | CHLORIDE mEq/l | | CALCIUM mg/dl | | INORGANIC PHOSPHORUS mg/dl | |
|------------|-------------------|------------------------|-------|-----------------|-----|--------------------|-------|-------------------|-----|------------------|-------|-------------------------------|-------|
| 0ppm | 5 | 26.8± | 2.3 | 150± | 1 | 4.6± | 0.6 | 122± | 3 | 9.0± | 0.2 | 8.3± | 0.9 |
| 37.5ppm | 5 | 24.6± | 2.6 | 150± | 1 | 4.3± | 0.8 | 121± | 1 | 8.8± | 0.2 | 8.4± | 0.4 |
| 75.0ppm | 5 | 22.2± | 3.1 | 150± | 1 | 4.7± | 0.5 | 120± | 1 | 8.8± | 0.2 | 8.1± | 0.8 |
| 150.0ppm | 2 | 16.6± | 2.4 ? | 149± | 0 ? | 4.4± | 0.4 ? | 120± | 1 ? | 8.8± | 0.3 ? | 8.2± | 0.2 ? |
| 300.0ppm | 0 | - | | - | | - | | - | | - | | - | |
| 600.0ppm | 0 | - | | - | | - | | - | | - | | - | |

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied, because No. of data in this group is less than 3.

APPENDIX E 2

BIOCHEMISTRY : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (3W)

PAGE : 4

| Group Name | NO. of Animals | TOTAL PROTEIN g / dl | | ALBUMIN g / dl | | A/G RATIO | | T-BILIRUBIN mg / dl | | GLUCOSE mg / dl | | T-CHOLESTEROL mg / dl | | TRIGLYCERIDE mg / dl | |
|------------|-------------------|-------------------------|-------|-------------------|-------|-----------|-------|------------------------|--------|--------------------|-----|--------------------------|-----|-------------------------|-----|
| 0ppm | 5 | 5.2± | 0.3 | 3.3± | 0.1 | 1.7± | 0.1 | 0.17± | 0.04 | 213± | 35 | 72± | 5 | 17± | 4 |
| 37.5ppm | 5 | 5.4± | 0.2 | 3.3± | 0.0 | 1.6± | 0.1 | 0.18± | 0.06 | 197± | 10 | 77± | 5 | 18± | 2 |
| 75.0ppm | 5 | 5.3± | 0.2 | 3.3± | 0.2 | 1.7± | 0.1 | 0.18± | 0.05 | 198± | 32 | 83± | 7* | 19± | 4 |
| 150.0ppm | 1 | 5.5± | 0.0 ? | 3.4± | 0.0 ? | 1.6± | 0.0 ? | 0.14± | 0.00 ? | 190± | 0 ? | 115± | 0 ? | 22± | 0 ? |
| 300.0ppm | 0 | - | | - | | - | | - | | - | | - | | - | |
| 600.0ppm | 0 | - | | - | | - | | - | | - | | - | | - | |

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied, because No. of data in this group is less than 3.

STUDY NO. : 0308
 ANIMAL : MOUSE C₇j:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (3W)

PAGE : 5

| Group Name | NO. of Animals | PHOSPHOLIPID mg/dl | | GOT I U/l | | GPT I U/l | | LDH I U/l | | ALP I U/l | | G-GTP I U/l | | CPK I U/l | |
|------------|-------------------|-----------------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|----------------|-----|--------------|-----|
| 0ppm | 5 | 143± | 10 | 57± | 19 | 20± | 8 | 323± | 182 | 420± | 26 | 1± | 1 | 113± | 101 |
| 37.5ppm | 5 | 145± | 9 | 54± | 9 | 20± | 6 | 312± | 74 | 456± | 20* | 1± | 1 | 104± | 23 |
| 75.0ppm | 5 | 149± | 10 | 56± | 14 | 22± | 12 | 400± | 294 | 420± | 20 | 1± | 1 | 128± | 132 |
| 150.0ppm | 1 | 190± | 0 ? | 56± | 0 ? | 20± | 0 ? | 285± | 0 ? | 346± | 0 ? | 3± | 0 ? | 37± | 0 ? |
| 300.0ppm | 0 | - | | - | | - | | - | | - | | - | | - | |
| 600.0ppm | 0 | - | | - | | - | | - | | - | | - | | - | |

Significant defference ; * : $P \leq 0.05$

** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 MEASURE. TIME : 1
 SEX : FEMALE

REPORT TYPE : A1

BIOCHEMISTRY (SUMMARY)
 ALL ANIMALS (3W)

PAGE : 6

| Group Name | NO. of Animals | UREA NITROGEN mg/dl | | SODIUM mEq/l | | POTASSIUM mEq/l | | CHLORIDE mEq/l | | CALCIUM mg/dl | | INORGANIC PHOSPHORUS mg/dl | |
|------------|-------------------|------------------------|-------|-----------------|-----|--------------------|-------|-------------------|-----|------------------|-------|-------------------------------|-------|
| 0ppm | 5 | 25.0± | 4.6 | 149± | 2 | 4.2± | 0.4 | 120± | 1 | 9.0± | 0.2 | 6.8± | 1.2 |
| 37.5ppm | 5 | 23.2± | 2.0 | 150± | 1 | 4.3± | 0.5 | 119± | 3 | 9.0± | 0.2 | 8.1± | 0.9 |
| 75.0ppm | 5 | 19.7± | 2.6 | 149± | 2 | 4.6± | 0.5 | 119± | 2 | 9.1± | 0.3 | 7.8± | 1.2 |
| 150.0ppm | 1 | 18.4± | 0.0 ? | 149± | 0 ? | 4.1± | 0.0 ? | 116± | 0 ? | 9.1± | 0.0 ? | 10.2± | 0.0 ? |
| 300.0ppm | 0 | - | | - | | - | | - | | - | | - | |
| 600.0ppm | 0 | - | | - | | - | | - | | - | | - | |

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied, because No. of data in this group is less than 3.

APPENDIX F 1

GROSS FINDINGS : SUMMARY, MOUSE : MALE

DEAD AND MORIBUND ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 3W)

PAGE : 1

| Organ | Findings | Group Name | 0ppm | | | | 37.5ppm | | | | 75.0ppm | | | | 150.0ppm | | | |
|-------------|------------|----------------|------|------|--|--|---------|------|--|--|---------|------|--|--|----------|-------|--|--|
| | | NO. of Animals | 0 | (%) | | | 0 | (%) | | | 0 | (%) | | | 8 | (%) | | |
| thymus | atrophic | | - | (-) | | | - | (-) | | | - | (-) | | | 4 | (50) | | |
| spleen | black zone | | - | (-) | | | - | (-) | | | - | (-) | | | 0 | (0) | | |
| stomach | gas | | - | (-) | | | - | (-) | | | - | (-) | | | 4 | (50) | | |
| small intes | gas | | - | (-) | | | - | (-) | | | - | (-) | | | 3 | (38) | | |
| large intes | gas | | - | (-) | | | - | (-) | | | - | (-) | | | 2 | (25) | | |

(HPT080)

BATS3

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 3W)

PAGE : 2

| Organ_____ | Findings_____ | Group Name NO. of Animals | 300.0ppm | | 600.0ppm | |
|-------------|---------------|------------------------------|----------|-------|----------|-------|
| | | | 10 | (%) | 10 | (%) |
| thymus | atrophic | | 0 | (0) | 0 | (0) |
| spleen | black zone | | 0 | (0) | 1 | (10) |
| stomach | gas | | 10 | (100) | 10 | (100) |
| small intes | gas | | 10 | (100) | 10 | (100) |
| large intes | gas | | 9 | (90) | 10 | (100) |

(HPT080)

BAIS3

APPENDIX F 2

GROSS FINDINGS : SUMMARY, MOUSE : MALE : SACRIFICED ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (3W)

PAGE : 1

| Organ_____ | Findings_____ | Group Name | 0ppm | | 37.5ppm | | 75.0ppm | | 150.0ppm | | |
|------------|---------------|----------------|------|-----|---------|-----|---------|------|----------|-----|------|
| | | NO. of Animals | 10 | (%) | 10 | (%) | 10 | (%) | 2 | (%) | |
| <hr/> | | | | | | | | | | | |
| spleen | black zone | | | 1 | (10) | | 0 | (0) | | 0 | (0) |

(HPT080)

BAIS 3

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : MALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (3W)

PAGE : 2

| Organ | Findings | Group Name NO. of Animals | 300.0ppm 0 (%) | 600.0ppm 0 (%) |
|--------|------------|------------------------------|-------------------|-------------------|
| spleen | black zone | | - (-) | - (-) |

(HPT080)

BAIS3

APPENDIX F 3

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE

DEAD AND MORIBUND ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 3W)

PAGE : 3

| Organ | Findings | Group Name | 0 ppm | | | | 37.5 ppm | | | | 75.0 ppm | | | | 150.0 ppm | | | |
|-------------|----------|----------------|-------|------|--|--|----------|------|--|--|----------|------|--|--|-----------|-------|--|--|
| | | NO. of Animals | 0 | (%) | | | 0 | (%) | | | 0 | (%) | | | 0 | (%) | | |
| thymus | atrophic | | - | (-) | | | - | (-) | | | - | (-) | | | 6 | (67) | | |
| stomach | gas | | - | (-) | | | - | (-) | | | - | (-) | | | 1 | (11) | | |
| small intes | gas | | - | (-) | | | - | (-) | | | - | (-) | | | 0 | (0) | | |
| large intes | gas | | - | (-) | | | - | (-) | | | - | (-) | | | 0 | (0) | | |

(HPT080)

BAIS3

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 3W)

PAGE : 4

| Organ | Findings | Group Name NO. of Animals | 300.0ppm | 600.0ppm |
|-------------|----------|------------------------------|----------|----------|
| | | | 10 (%) | 10 (%) |
| thymus | atrophic | | 0 (0) | 0 (0) |
| stomach | gas | | 10 (100) | 10 (100) |
| small intes | gas | | 10 (100) | 10 (100) |
| large intes | gas | | 8 (80) | 9 (90) |

(HPT080)

BAIS3

APPENDIX F 4

GROSS FINDINGS : SUMMARY, MOUSE : FEMALE : SACRIFICED ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (3W)

PAGE : 3

| Organ | Findings | Group Name NO. of Animals | 0ppm | | | | 37.5ppm | | | | 75.0ppm | | | | 150.0ppm | | | |
|--------|------------|------------------------------|------|------|--|--|---------|-------|--|--|---------|-------|--|--|----------|-------|--|--|
| | | | 10 | (%) | | | 10 | (%) | | | 10 | (%) | | | 1 | (%) | | |
| thymus | atrophic | | 0 | (0) | | | 0 | (0) | | | 0 | (0) | | | 1 | (100) | | |
| spleen | black zone | | 0 | (0) | | | 1 | (10) | | | 3 | (30) | | | 0 | (0) | | |

(HPT080)

BAIS3

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

GROSS FINDINGS (SUMMARY)
SACRIFICED ANIMALS (3W)

PAGE : 4

| Organ | Findings | Group Name | 300.0ppm | 600.0ppm |
|--------|------------|----------------|----------|----------|
| | | NO. of Animals | 0 (%) | 0 (%) |
| thymus | atrophic | | - (-) | - (-) |
| spleen | black zone | | - (-) | - (-) |

(HPT080)

BAIS3

APPENDIX G 1

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (3W)

PAGE : 1

| Group Name | NO. of Animals | Body Weight | THYMUS | ADRENALS | TESTES | HEART | LUNGS |
|------------|-------------------|-------------|----------------|----------------|----------------|----------------|----------------|
| 0ppm | 5 | 22.1± 0.6 | 0.048± 0.004 | 0.013± 0.002 | 0.195± 0.010 | 0.126± 0.009 | 0.152± 0.013 |
| 37.5ppm | 5 | 21.5± 0.9 | 0.048± 0.012 | 0.012± 0.002 | 0.202± 0.028 | 0.124± 0.012 | 0.152± 0.012 |
| 75.0ppm | 5 | 21.6± 0.8 | 0.051± 0.007 | 0.011± 0.002 | 0.187± 0.014 | 0.117± 0.004 | 0.157± 0.004 |
| 150.0ppm | 2 | 19.8± 0.4 ? | 0.038± 0.006 ? | 0.012± 0.002 ? | 0.195± 0.008 ? | 0.114± 0.004 ? | 0.158± 0.010 ? |
| 300.0ppm | 0 | - | - | - | - | - | - |
| 600.0ppm | 0 | - | - | - | - | - | - |

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

(HCL040)

BAIS3

STUDY NO. : 0308
 ANIMAL : MOUSE C₇:BDF1
 REPORT TYPE : A1
 SEX : MALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (3w)

PAGE : 2

| Group Name | NO. of Animals | KIDNEYS | | SPLEEN | | LIVER | | BRAIN | |
|------------|-------------------|---------|---------|--------|---------|--------|---------|--------|---------|
| 0ppm | 5 | 0.358± | 0.023 | 0.041± | 0.006 | 0.991± | 0.075 | 0.448± | 0.023 |
| 37.5ppm | 5 | 0.356± | 0.019 | 0.041± | 0.005 | 0.901± | 0.032* | 0.439± | 0.017 |
| 75.0ppm | 5 | 0.373± | 0.021 | 0.043± | 0.002 | 0.961± | 0.036 | 0.438± | 0.016 |
| 150.0ppm | 2 | 0.348± | 0.017 ? | 0.033± | 0.000 ? | 0.880± | 0.035 ? | 0.429± | 0.016 ? |
| 300.0ppm | 0 | - | | - | | - | | - | |
| 600.0ppm | 0 | - | | - | | - | | - | |

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

(HCL040)

BAIS3

APPENDIX G 2

ORGAN WEIGHT, ABSOLUTE : SUMMARY, MOUSE : FEMALE

(2-WEEK STUDY)

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (3W)

PAGE : 3

| Group Name | NO. of Animals | Body Weight | THYMUS | ADRENALS | OVARIES | HEART | LUNGS |
|------------|----------------|-------------|----------------|----------------|----------------|----------------|----------------|
| 0ppm | 5 | 17.7± 0.8 | 0.066± 0.005 | 0.012± 0.003 | 0.017± 0.003 | 0.109± 0.003 | 0.146± 0.004 |
| 37.5ppm | 5 | 17.3± 0.5 | 0.061± 0.006 | 0.012± 0.001 | 0.014± 0.004 | 0.109± 0.005 | 0.146± 0.006 |
| 75.0ppm | 5 | 17.6± 0.7 | 0.062± 0.006 | 0.011± 0.001 | 0.019± 0.004 | 0.106± 0.003 | 0.148± 0.008 |
| 150.0ppm | 1 | 15.7± 0.0 ? | 0.013± 0.000 ? | 0.010± 0.000 ? | 0.014± 0.000 ? | 0.099± 0.000 ? | 0.143± 0.000 ? |
| 300.0ppm | 0 | - | - | - | - | - | - |
| 600.0ppm | 0 | - | - | - | - | - | - |

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

(HCL040)

BAIS3

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: g

ORGAN WEIGHT:ABSOLUTE (SUMMARY)
 SURVIVAL ANIMALS (3W)

PAGE : 4

| Group Name | NO. of Animals | KIDNEYS | | SPLEEN | | LIVER | | BRAIN | |
|------------|-------------------|---------|---------|--------|---------|--------|---------|--------|---------|
| 0ppm | 5 | 0.271± | 0.016 | 0.047± | 0.006 | 0.808± | 0.026 | 0.448± | 0.018 |
| 37.5ppm | 5 | 0.271± | 0.016 | 0.042± | 0.004 | 0.782± | 0.024 | 0.454± | 0.005 |
| 75.0ppm | 5 | 0.268± | 0.013 | 0.044± | 0.004 | 0.777± | 0.035 | 0.441± | 0.015 |
| 150.0ppm | 1 | 0.259± | 0.000 ? | 0.026± | 0.000 ? | 0.744± | 0.000 ? | 0.433± | 0.000 ? |
| 300.0ppm | 0 | - | | - | | - | | - | |
| 600.0ppm | 0 | - | | - | | - | | - | |

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

(HCL040)

BAIS3

APPENDIX H 1

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : MALE

(2-WEEK STUDY)

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
 SURVIVAL ANIMALS (3W)

PAGE : 1

| Group Name | NO. of Animals | Body Weight (g) | THYMUS | ADRENALS | TESTES | HEART | LUNGS |
|------------|-------------------|--------------------|----------------|----------------|----------------|----------------|----------------|
| 0ppm | 5 | 22.1± 0.6 | 0.216± 0.018 | 0.058± 0.009 | 0.882± 0.045 | 0.572± 0.046 | 0.685± 0.053 |
| 37.5ppm | 5 | 21.5± 0.9 | 0.221± 0.052 | 0.055± 0.010 | 0.939± 0.108 | 0.579± 0.049 | 0.705± 0.038 |
| 75.0ppm | 5 | 21.6± 0.8 | 0.239± 0.035 | 0.053± 0.007 | 0.868± 0.076 | 0.542± 0.011 | 0.730± 0.030 |
| 150.0ppm | 2 | 19.8± 0.4 ? | 0.189± 0.028 ? | 0.059± 0.012 ? | 0.983± 0.061 ? | 0.574± 0.030 ? | 0.798± 0.033 ? |
| 300.0ppm | 0 | - | - | - | - | - | - |
| 600.0ppm | 0 | - | - | - | - | - | - |

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

(HCL042)

BAIS3

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
 SURVIVAL ANIMALS (3w)

PAGE : 2

| Group Name | NO. of Animals | KIDNEYS | SPLEEN | LIVER | BRAIN |
|------------|----------------|----------------|----------------|----------------|----------------|
| 0ppm | 5 | 1.617± 0.111 | 0.187± 0.025 | 4.476± 0.257 | 2.027± 0.088 |
| 37.5ppm | 5 | 1.660± 0.105 | 0.193± 0.019 | 4.195± 0.128 | 2.047± 0.136 |
| 75.0ppm | 5 | 1.730± 0.094 | 0.199± 0.013 | 4.452± 0.051 | 2.034± 0.140 |
| 150.0ppm | 2 | 1.757± 0.048 ? | 0.167± 0.004 ? | 4.442± 0.080 ? | 2.167± 0.032 ? |
| 300.0ppm | 0 | - | - | - | - |
| 600.0ppm | 0 | - | - | - | - |

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

(HCL042)

BAIS3

APPENDIX H 2

ORGAN WEIGHT, RELATIVE : SUMMARY, MOUSE : FEMALE
(2-WEEK STUDY)

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
 SURVIVAL ANIMALS (3W)

PAGE : 3

| Group Name | NO. of Animals | Body Weight (g) | THYMUS | ADRENALS | OVARIES | HEART | LUNGS |
|------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|
| 0ppm | 5 | 17.7± 0.8 | 0.372± 0.028 | 0.068± 0.017 | 0.098± 0.012 | 0.617± 0.026 | 0.826± 0.046 |
| 37.5ppm | 5 | 17.3± 0.5 | 0.354± 0.031 | 0.067± 0.007 | 0.083± 0.023 | 0.629± 0.042 | 0.843± 0.029 |
| 75.0ppm | 5 | 17.6± 0.7 | 0.350± 0.032 | 0.065± 0.007 | 0.107± 0.026 | 0.600± 0.015 | 0.841± 0.068 |
| 150.0ppm | 1 | 15.7± 0.0 ? | 0.083± 0.000 ? | 0.064± 0.000 ? | 0.089± 0.000 ? | 0.631± 0.000 ? | 0.911± 0.000 ? |
| 300.0ppm | 0 | - | - | - | - | - | - |
| 600.0ppm | 0 | - | - | - | - | - | - |

Significant difference ; * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

(HCL042)

BAIS3

STUDY NO. : 0308
 ANIMAL : MOUSE C₇j:BDF1
 REPORT TYPE : A1
 SEX : FEMALE
 UNIT: %

ORGAN WEIGHT:RELATIVE (SUMMARY)
 SURVIVAL ANIMALS (3W)

PAGE : 4

| Group Name | NO. of Animals | KIDNEYS | SPLEEN | LIVER | BRAIN |
|------------|-------------------|----------------|----------------|----------------|----------------|
| 0ppm | 5 | 1.527± 0.078 | 0.263± 0.035 | 4.560± 0.085 | 2.526± 0.087 |
| 37.5ppm | 5 | 1.562± 0.108 | 0.244± 0.020 | 4.509± 0.078 | 2.618± 0.090 |
| 75.0ppm | 5 | 1.520± 0.066 | 0.247± 0.013 | 4.412± 0.164 | 2.508± 0.169 |
| 150.0ppm | 1 | 1.650± 0.000 ? | 0.166± 0.000 ? | 4.739± 0.000 ? | 2.758± 0.000 ? |
| 300.0ppm | 0 | - | - | - | - |
| 600.0ppm | 0 | - | - | - | - |

Significant difference : * : $P \leq 0.05$ ** : $P \leq 0.01$

Test of Dunnett

? : Significant test is not applied,because No. of data in this group is less than 3.

(HCL042)

BAIS3

APPENDIX I 1

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE : DEAD AND MORIBUND ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0308
ANIMAL : MOUSE Grj:BDF1
REPORT TYPE : A1
SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 3W)

PAGE : 1

| Organ | Findings | Group Name No. of Animals on Study | | | | 0ppm | | | | 37.5ppm | | | | 75.0ppm | | | | 150.0ppm | | | |
|----------------------|---------------------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|---------|---------|---------|-------|----------|---------|---------|-------|
| | | Grade | | | | 0 | | | | 0 | | | | 0 | | | | 1 | | | |
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| [Respiratory system] | | | | | | | | | | | | | | | | | | | | | |
| nasal cavit | ulcer | < 0> | | | | < 0> | | | | < 0> | | | | < 1> | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 1 | 0 | 0 | 0 | 100 | 0 |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (0) | (100) | (0) | (0) | (0) | (100) | (0) |
| | inflammatory infiltration | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 1 | 0 | 0 | 0 | 100 | 0 | 0 |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (100) | (0) | (0) | (0) | (100) | (0) | (0) |
| | necrosis:olfactory epithelium | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 1 | 0 | 0 | 0 | 100 | 0 |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (0) | (100) | (0) | (0) | (0) | (100) | (0) |
| | necrosis:respiratory epithelium | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 1 | 0 | 0 | 0 | 100 | 0 |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (0) | (100) | (0) | (0) | (0) | (100) | (0) |
| | necrosis:squamous epithelium | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) |
| trachea | inflammatory infiltration | < 0> | | | | < 0> | | | | < 0> | | | | < 1> | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 | 0 | 0 | 100 | 0 | 0 | 0 |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (100) | (0) | (0) | (0) | (100) | (0) | (0) | (0) |
| | necrosis:epithelium | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 1 | 0 | 0 | 0 | 100 | 0 | 0 |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (100) | (0) | (0) | (0) | (100) | (0) | (0) |
| | congestion | < 0> | | | | < 0> | | | | < 0> | | | | < 1> | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 | 0 | 0 | 100 | 0 | 0 | 0 |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (100) | (0) | (0) | (0) | (100) | (0) | (0) | (0) |

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0- 3W)

PAGE : 2

| | | Group Name No. of Animals on Study | | | | 300.0ppm 2 | | | | 600.0ppm 2 | | | |
|----------------------|---------------------------------|---------------------------------------|-------|------|-------|---------------|------|-------|------|---------------|------|--|--|
| Organ_____ | Findings_____ | Grade | 1 | 2 | 3 | 4 | | 1 | 2 | 3 | 4 | | |
| | | | (%) | (%) | (%) | (%) | | (%) | (%) | (%) | (%) | | |
| [Respiratory system] | | | | | | | | | | | | | |
| nasal cavit | ulcer | | < 2> | | | | | < 2> | | | | | |
| | | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | |
| | | (0) | (0) | (0) | (0) | | (0) | (0) | (0) | (0) | | | |
| | inflammatory infiltration | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | |
| | | | (0) | (0) | (0) | (0) | | (0) | (0) | (0) | (0) | | |
| | necrosis:olfactory epithelium | | 0 | 0 | 2 | 0 | | 0 | 0 | 2 | 0 | | |
| | | | (0) | (0) | (100) | (0) | | (0) | (0) | (100) | (0) | | |
| | necrosis:respiratory epithelium | | 0 | 0 | 2 | 0 | | 0 | 0 | 2 | 0 | | |
| | | | (0) | (0) | (100) | (0) | | (0) | (0) | (100) | (0) | | |
| | necrosis:squamous epithelium | | 1 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | |
| | | (50) | (0) | (0) | (0) | | (0) | (0) | (0) | (0) | | | |
| trachea | inflammatory infiltration | | < 2> | | | | | < 2> | | | | | |
| | | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | |
| | | (0) | (0) | (0) | (0) | | (0) | (0) | (0) | (0) | | | |
| | necrosis:epithelium | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | | |
| | | | (0) | (0) | (0) | (0) | | (0) | (0) | (0) | (0) | | |
| lung | congestion | | < 2> | | | | | < 2> | | | | | |
| | | | 2 | 0 | 0 | 0 | | 2 | 0 | 0 | 0 | | |
| | | | (100) | (0) | (0) | (0) | | (100) | (0) | (0) | (0) | | |

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0- 3W)

PAGE : 3

| | | Group Name No. of Animals on Study | | | | 0ppm | | | | 37.5ppm | | | | 75.0ppm | | | | 150.0ppm | | | |
|----------------------------------|--|---------------------------------------|------------|------------|-------|-------|-------|-------|-------|---------|-------|-------|-------|---------|-------|---------|-------|----------|--|--|--|
| | | Grade | | | | 0 | | | | 0 | | | | 0 | | | | 1 | | | |
| Organ | Findings | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | |
| | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | | | | |
| [Hematopoietic system] | | | | | | | | | | | | | | | | | | | | | |
| thymus | karyorrhexis | < 0> | | | | < 0> | | | | < 0> | | | | < 1> | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 1 | 0 | | | | |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (0) | (100) | (0) | | | | |
| spleen | deposit of melanin | < 0> | | | | < 0> | | | | < 0> | | | | < 1> | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 0 | 0 | | | | |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (0) | (0) | (0) | | | | |
| [Urinary system] | | | | | | | | | | | | | | | | | | | | | |
| kidney | tubular necrosis | < 0> | | | | < 0> | | | | < 0> | | | | < 1> | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 0 | 0 | | | | |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (0) | (0) | (0) | | | | |
| [Special sense organs/appandage] | | | | | | | | | | | | | | | | | | | | | |
| eye | keratitis | < 0> | | | | < 0> | | | | < 0> | | | | < 1> | | | | | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 | 0 | 0 | | | | |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (100) | (0) | (0) | (0) | | | | |
| Grade | 1 : Slight | 2 : Moderate | 3 : Marked | 4 : Severe | | | | | | | | | | | | | | | | | |
| < a > | a : Number of animals examined at the site | | | | | | | | | | | | | | | | | | | | |
| b | b : Number of animals with lesion | | | | | | | | | | | | | | | | | | | | |
| (c) | c : b / a * 100 | | | | | | | | | | | | | | | | | | | | |

(HPT150)

BA1S3

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0- 3W)

PAGE : 4

| | | Group Name | | | | 300.0ppm | | | | 600.0ppm | | | |
|------------|---------------|-------------------------|-----|-----|-----|----------|-----|-----|-----|----------|-----|-----|-----|
| | | No. of Animals on Study | | | | 2 | | | | 2 | | | |
| | | Grade | | | | | | | | | | | |
| Organ_____ | Findings_____ | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |

[Hematopoietic system]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | |
|--------------------|-------|------|------|------|-------|------|------|------|
| spleen | < 2> | | | | < 2> | | | |
| deposit of melanin | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | (50) | (0) | (0) | (0) | (50) | (0) | (0) | (0) |

[Urinary system]

| | | | | | | | | | |
|--------|------------------|------|-------|------|------|------|------|------|------|
| kidney | | < 2> | | | | < 2> | | | |
| | tubular necrosis | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | (0) | (50) | (0) | (0) | (0) | (0) | (0) | (0) |

[Special sense organs/appandage]

| | | | | | | | | | |
|-----|-----------|------|------|------|------|------|------|------|------|
| eye | | < 2> | | | | < 2> | | | |
| | keratitis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) |

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100

(HPT150)

BAIS3

APPENDIX I 2

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : MALE: SACRIFICED ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (3W)

PAGE : 1

| Organ_____ | Findings_____ | Group Name No. of Animals on Study | | | | 0ppm | | | | 37.5ppm | | | | 75.0ppm | | | | 150.0ppm | | | |
|----------------------|---|---------------------------------------|------|------|------|------------|------|------|------|------------|-------|------|------|---------|-------|------|------|----------|--|--|--|
| | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | | | | |
| | | Grade | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | |
| | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | | | | |
| [Respiratory system] | | | | | | | | | | | | | | | | | | | | | |
| nasal cavit | | | | | | | | | | | | | | | | | | | | | |
| | inflammatory infiltration | < 2> | | | | < 2> | | | | < 2> | | | | < 2> | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (50) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | | | | |
| | inflammatory polyp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | | | | |
| | | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (50) | (0) | (0) | (0) | (50) | (50) | (0) | (0) | | | | |
| | respiratory metaplasia:olfactory epithelium | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | | | | |
| | | (0) | (0) | (0) | (0) | (50) | (0) | (0) | (0) | (0) | (100) | (0) | (0) | (50) | (50) | (0) | (0) | | | | |
| | atrophy:olfactory epithelium | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | | (0) | (0) | (0) | (0) | (50) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | | | | |
| | necrosis:olfactory epithelium | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | | | | |
| | | (0) | (0) | (0) | (0) | (100) | (0) | (0) | (0) | (100) | (0) | (0) | (0) | (100) | (0) | (0) | (0) | | | | |
| | necrosis:respiratory epithelium | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (50) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | | | | |
| | necrosis:squamous epithelium | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | | | | |
| | | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (100) | (0) | (0) | (0) | | | | |
| Grade | 1 : Slight | 2 : Moderate | | | | 3 : Marked | | | | 4 : Severe | | | | | | | | | | | |
| < a > | a : Number of animals examined at the site | | | | | | | | | | | | | | | | | | | | |
| b | b : Number of animals with lesion | | | | | | | | | | | | | | | | | | | | |
| (c) | c : b / a * 100 | | | | | | | | | | | | | | | | | | | | |

(HPT150)

BAIS3

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : MALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (3W)

PAGE : 2

| Organ_____ | Findings_____ | Group Name No. of Animals on Study Grade | | | | 300.0ppm 0 | | | | 600.0ppm 0 | | | |
|----------------------|---|--|-------|-------|-------|---------------|-------|-------|-------|---------------|-------|-------|-------|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | |
| | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | | | | |
| [Respiratory system] | | | | | | | | | | | | | |
| nasal cavit | inflammatory infiltration | - | - | - | - | - | - | - | - | - | - | - | - |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) |
| | inflammatory polyp | - | - | - | - | - | - | - | - | - | - | - | - |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) |
| | respiratory metaplasia:olfactory epithelium | - | - | - | - | - | - | - | - | - | - | - | - |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) |
| | atrophy:olfactory epithelium | - | - | - | - | - | - | - | - | - | - | - | - |
| | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | |
| | necrosis:olfactory epithelium | - | - | - | - | - | - | - | - | - | - | - | - |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) |
| | necrosis:respiratory epithelium | - | - | - | - | - | - | - | - | - | - | - | - |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) |
| | necrosis:squamous epithelium | - | - | - | - | - | - | - | - | - | - | - | - |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) |

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100

APPENDIX I 3

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : DEAD AND MORIBUND ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 3W)

PAGE : 5

| Organ | Findings | Group Name No. of Animals on Study Grade | | | | 0ppm 0 | | | | 37.5ppm 0 | | | | 75.0ppm 0 | | | | 150.0ppm 2 | | | |
|----------------------|---|--|-------|-------|-------|-----------|-------|-------|-------|--------------|-------|-------|-------|--------------|---------|--------|-------|---------------|-----|-----|-----|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| [Respiratory system] | | | | | | | | | | | | | | | | | | | | | |
| nasal cavit | | < 0> | | | | < 0> | | | | < 0> | | | | < 2> | | | | | | | |
| | ulcer | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 | 1 | 0 | | | | |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (50) | (0) | (50) | (0) | | | | |
| | inflammatory infiltration | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 0 | 0 | | | | |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (50) | (50) | (0) | (0) | | | | |
| | inflammatory polyp | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 | 0 | 0 | | | | |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (50) | (0) | (0) | (0) | | | | |
| | respiratory metaplasia:olfactory epithelium | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 | 0 | 0 | | | | |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (50) | (0) | (0) | (0) | | | | |
| | atrophy:olfactory epithelium | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 1 | 0 | 0 | | | | |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (50) | (0) | (0) | | | | |
| | necrosis:olfactory epithelium | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 1 | 1 | 0 | | | | |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (50) | (50) | (0) | | | | |
| | necrosis:respiratory epithelium | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 | 1 | 0 | | | | |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (50) | (0) | (50) | (0) | | | | |
| lung | | < 0> | | | | < 0> | | | | < 0> | | | | < 2> | | | | | | | |
| | congestion | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 2 | 0 | 0 | | | | |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (100) | (0) | (0) | | | | |

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b b : Number of animals with lesion
(c) c : b / a * 100

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0- 3W)

PAGE : 6

| Organ_____ | Findings_____ | Group Name No. of Animals on Study Grade | | | | 300.0ppm 2 | | | | 600.0ppm 2 | | | |
|------------------------------|---|--|---------|---------|-------|---------------|---------|---------|-------|---------------|-------|---------|-------|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| [Respiratory system] | | | | | | | | | | | | | |
| nasal cavit | ulcer | < 2> | | | | < 2> | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) |
| | inflammatory infiltration | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | (0) | (100) | (0) | (0) | (50) | (0) | (0) | (0) | (0) | (0) | (0) | (0) |
| | inflammatory polyp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) |
| | respiratory metaplasia:olfactory epithelium | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | |
| atrophy:olfactory epithelium | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | |
| | necrosis:olfactory epithelium | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| | | (0) | (0) | (100) | (0) | (0) | (0) | (100) | (0) | (0) | (0) | (100) | (0) |
| | necrosis:respiratory epithelium | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| | | (0) | (0) | (100) | (0) | (0) | (0) | (100) | (0) | (0) | (0) | (100) | (0) |
| lung | congestion | < 2> | | | | < 2> | | | | | | | |
| | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| | (100) | (0) | (0) | (0) | (0) | (0) | (100) | (0) | (0) | (0) | (0) | (0) | (0) |

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
DEAD AND MORIBUND ANIMALS (0- 3W)

PAGE : 7

| | | Group Name | 0ppm | | | | 37.5ppm | | | | 75.0ppm | | | | 150.0ppm | | | |
|------------------------|--|-------------------------|-------|-------|-------|-------|---------|-------|-------|-------|---------|-------|-------|-------|----------|--------|-------|-----|
| | | No. of Animals on Study | 0 | | | | 0 | | | | 0 | | | | 2 | | | |
| Organ | Findings | Grade | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| | | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| [Hematopoietic system] | | | | | | | | | | | | | | | | | | |
| thymus | atrophy | | < 0> | | | | < 0> | | | | < 0> | | | | < 2> | | | |
| | | | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 1 | 0 |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (0) | (50) | (0) | |
| | karyorrhexis | | < 0> | | | | < 0> | | | | < 0> | | | | < 2> | | | |
| | | | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 0 | 0 |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (0) | (0) | (0) | |
| [Digestive system] | | | | | | | | | | | | | | | | | | |
| liver | fatty change | | < 0> | | | | < 0> | | | | < 0> | | | | < 2> | | | |
| | | | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 0 | 0 |
| | | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (-) | (0) | (0) | (0) | (0) | |
| Grade | 1 : Slight 2 : Moderate 3 : Marked 4 : Severe | | | | | | | | | | | | | | | | | |
| < a > | a : Number of animals examined at the site | | | | | | | | | | | | | | | | | |
| b | b : Number of animals with lesion | | | | | | | | | | | | | | | | | |
| (c) | c : b / a * 100 | | | | | | | | | | | | | | | | | |

(HPT150)

BAIS3

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 DEAD AND MORIBUND ANIMALS (0- 3W)

PAGE : 8

| Organ | Findings | Group Name | | 300.0ppm | | | | 600.0ppm | | | |
|-------|----------|-------------------------|--|----------|-----|-----|-----|----------|-----|-----|-----|
| | | No. of Animals on Study | | 2 | | | | 2 | | | |
| | | Grade | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| | | | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |

[Hematopoietic system]

| | | | | | | | | | |
|--------|--------------|------|------|-------|------|------|------|------|------|
| thymus | atrophy | < 2> | | | | < 2> | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) |
| | karyorrhexis | < 2> | | | | < 2> | | | |
| | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | | (0) | (0) | (50) | (0) | (0) | (0) | (0) | (0) |

[Digestive system]

| | | | | | | | | | |
|-------|--------------|-------|------|------|------|------|------|------|------|
| liver | fatty change | < 2> | | | | < 2> | | | |
| | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | (50) | (0) | (0) | (0) | (0) | (0) | (0) | (0) |

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b b : Number of animals with lesion
 (c) c : b / a * 100

(HPT150)

BAIS3

APPENDIX I 4

HISTOLOGICAL FINDINGS : NON-NEOPLASTIC LESIONS : SUMMARY

MOUSE : FEMALE : SACRIFICED ANIMALS

(2-WEEK STUDY)

STUDY NO. : 0308
ANIMAL : MOUSE Crj:BDF1
REPORT TYPE : A1
SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
SACRIFICED ANIMALS (3W)

PAGE : 3

| Organ | Findings | 0ppm | | | | 37.5ppm | | | | 75.0ppm | | | | 150.0ppm | | | |
|----------------------|---|------|------|------|------|---------|-------|------|------|---------|-------|------|------|----------|------|------|------|
| | | 2 | | | | 2 | | | | 2 | | | | 1 | | | |
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| [Respiratory system] | | | | | | | | | | | | | | | | | |
| nasal cavit | | < 2> | | | | < 2> | | | | < 2> | | | | < 1> | | | |
| | inflammatory infiltration | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | (0) | (0) | (0) | (0) | (50) | (0) | (0) | (0) | (100) | (0) | (0) | (0) | (0) | (0) | (0) | (0) |
| | inflammatory polyp | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | (0) | (0) | (0) | (0) | (50) | (0) | (0) | (0) | (100) | (0) | (0) | (0) | (0) | (0) | (0) | (0) |
| | respiratory metaplasia:olfactory epithelium | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| | | (0) | (0) | (0) | (0) | (0) | (50) | (0) | (0) | (50) | (50) | (0) | (0) | (100) | (0) | (0) | (0) |
| | atrophy:olfactory epithelium | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | | (0) | (0) | (0) | (0) | (50) | (0) | (0) | (0) | (100) | (0) | (0) | (0) | (100) | (0) | (0) | (0) |
| | necrosis:olfactory epithelium | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | | (0) | (0) | (0) | (0) | (100) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (100) | (0) | (0) | (0) |

[Hematopoietic system]

| | | | | | | | | | | | | | | | | | |
|--------|---------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|
| thymus | | < 2> | | | | < 2> | | | | < 2> | | | | < 1> | | | |
| | atrophy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (0) | (100) | (0) | (0) | (0) |

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
< a > a : Number of animals examined at the site
b : Number of animals with lesion
(c) c : b / a * 100

(HPT150)

BAIS3

STUDY NO. : 0308
 ANIMAL : MOUSE Crj:BDF1
 REPORT TYPE : A1
 SEX : FEMALE

HISTOLOGICAL FINDINGS :NON-NEOPLASTIC LESIONS (SUMMARY)
 SACRIFICED ANIMALS (3W)

PAGE : 4

| Organ | Findings | Group Name No. of Animals on Study Grade | 300.0ppm 0 | | | | 600.0ppm 0 | | | |
|-------|----------|--|---------------|-----|-----|-----|---------------|-----|-----|-----|
| | | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| | | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |

[Respiratory system]

nasal cavit

inflammatory infiltration

< 0>
 (-) (-) (-) (-) (-) (-) (-) (-)

inflammatory polyp

(-) (-) (-) (-) (-) (-) (-) (-)

respiratory metaplasia:olfactory epithelium

(-) (-) (-) (-) (-) (-) (-) (-)

atrophy:olfactory epithelium

(-) (-) (-) (-) (-) (-) (-) (-)

necrosis:olfactory epithelium

(-) (-) (-) (-) (-) (-) (-) (-)

[Hematopoietic system]

thymus

atrophy

< 0>
 (-) (-) (-) (-) (-) (-) (-) (-)

Grade 1 : Slight 2 : Moderate 3 : Marked 4 : Severe
 < a > a : Number of animals examined at the site
 b : Number of animals with lesion
 (c) c : b / a * 100

(HPT150)

BAIS3

APPENDIX J 1

IDENTITY OF GLYCIDOL IN THE 2-WEEK INHALATION STUDY

IDENTITY OF GLYCIDOL IN THE 2-WEEK INHALATION STUDY

Test Substance Lot No.: SKG5118

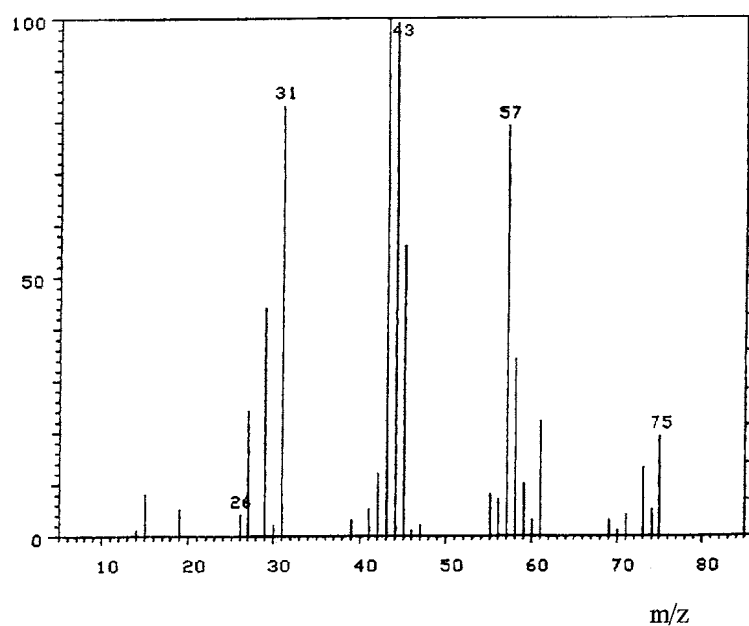
1. Spectral data

Mass Spectrometry

Instrument : Hitachi M-80B Mass Spectrometer

Ionization : EI (Electron Ionization)

Ionization Voltage : 70eV



Mass Spectrum of Test Substance

Determined
Peak(m/z)Literature Value *
Peak(m/z)

31

31

43

43

44

44

57

57

73

73

75

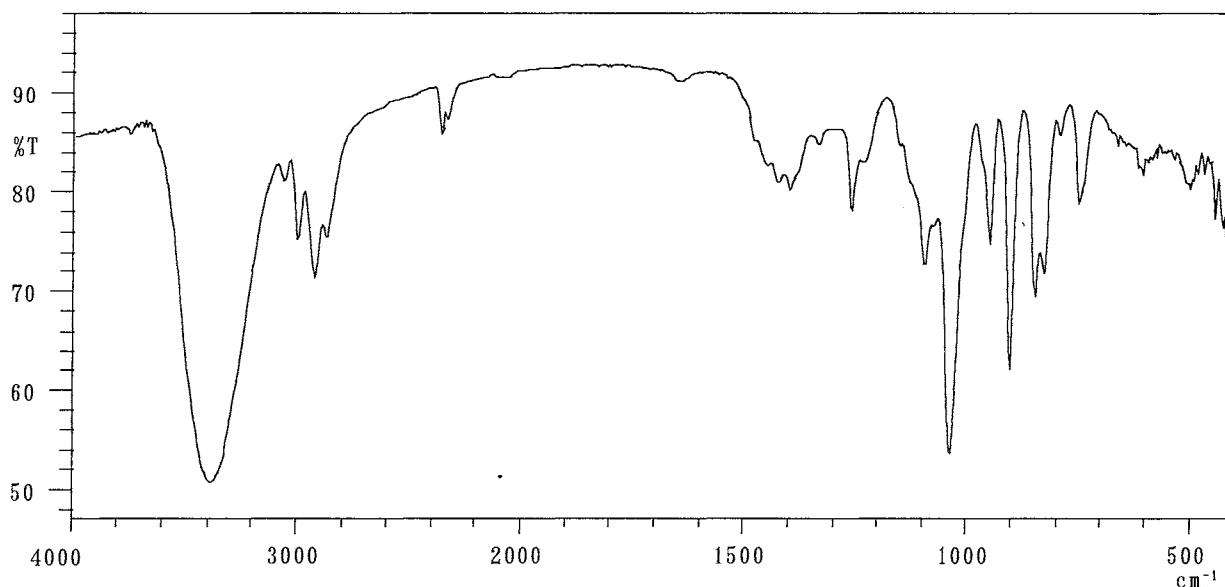
Results: The mass spectrum was consistent with literature spectrum.

(*Fred W. McLafferty (1994) Wiley Registry of Mass Spectral Data, 6th edition.
John Wiley and Sons, Inc. (U.S.), Entry Number 1733)

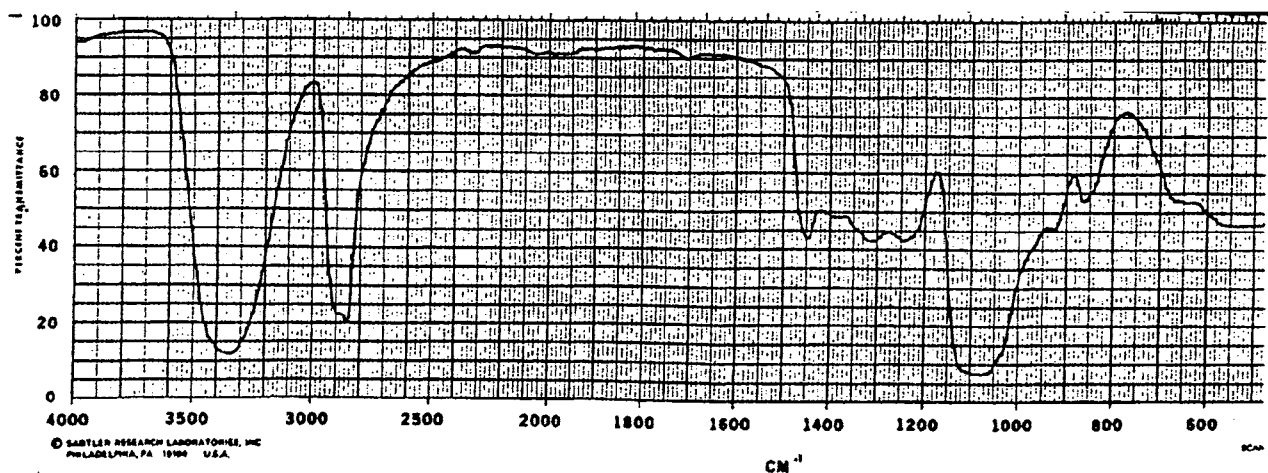
Infrared Spectrometry

Instrument : Shimadzu FTIR-8200PC Infrared Spectrometer

Cell : KBr Liquid Cell

Resolution : 4 cm^{-1} 

Infrared Spectrum of Test Substance



Infrared Spectrum of Glycidol(literature spectrum*)

Results: The infrared spectrum was consistent with literature spectrum.

(*William W. Simons (1978) The Sadtler Handbook of Infrared Spectra.
Sadtler Research Laboratories, Inc. (U.K.), pp.480)

- Conclusions: The result of the mass spectrum and the infrared spectrum agreed with the literature values. Consequently, the test substance was identified as glycidol.

APPENDIX J 2

STABILITY OF GLYCIDOL IN THE 2-WEEK INHALATION STUDY

STABILITY OF GLYCIDOL IN THE 2-WEEK INHALATION STUDY

Test Substance Lot No.: SKG5118

1. Sample: This lot was used from 1996.4.3 to 1996.4.16. Test substance was stored at room temperature.

2. Gas Chromatography

Instrument : Hewlett Packard 6890
Column : Methyl Silicone (0.53 mm ϕ \times 60 m)
Column Temperature : 150°C
Flow Rate : 10 ml/min
Detector : FID (Flame Ionization Detector)
Injection Volume : 1 μ L

Results: Gas chromatography indicated one major peak (peak No.3) and two impurities (peak No.1,2 < 1% of total area) analyzed at 1996.3.14 and one major peak (peak No.3) and two impurities (peak No.1,2 < 1% of total area) analyzed at 1996.4.18. No new trace impurity peak in the test substance analyzed at 1996.4.18 was detected.

| Date (date analyzed) | Peak No. | Retention Time (min) | Area(%) |
|-------------------------|----------|-------------------------|---------|
| 1996.03.14 | 1 | 1.89 | 0.15 |
| | 2 | 2.13 | 0.23 |
| | 3 | 2.52 | 99.62 |
| 1996.04.18 | 1 | 1.89 | 0.15 |
| | 2 | 2.12 | 0.23 |
| | 3 | 2.52 | 99.62 |

4. Conclusions: The results indicated that the test substance did not change when stored at room temperature during this period (for about 1 month).

APPENDIX K 1

CONCENTRATION OF GLYCIDOL IN THE INHALATION CHAMBER

CONCENTRATION OF GLYCIDOL IN THE INHALATION CHAMBER OF THE 2-WEEK INHALATION STUDY

| Group Name | Concentration(ppm) |
|------------|--------------------|
| | Mean \pm S.D. |
| Control | 0.0 \pm 0.0 |
| 37.5ppm | 36.7 \pm 0.9 |
| 75.0ppm | 73.7 \pm 1.4 |
| 150.0ppm | 148.4 \pm 3.4 |
| 300.0ppm | 304.7 \pm 6.2 |
| 600.0ppm | 597.2 \pm 0.0 |

APPENDIX K 2

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER IN THE 2-WEEK INHALATION STUDY OF GLYCIDOL

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER IN THE 2-WEEK INHALATION STUDY OF GLYCIDOL

| Group Name | Temperature(°C) Mean \pm S.D. | Humidity(%) Mean \pm S.D. | Ventilation Rate(L/min) Mean \pm S.D. | Air Change(time/h) Mean |
|------------|------------------------------------|--------------------------------|--|----------------------------|
| Control | 22.1 \pm 0.1 | 52.6 \pm 0.2 | 103.4 \pm 1.1 (55.2 \pm 2.5) | 11.9 (6.4) |
| 62.5ppm | 21.8 \pm 0.1 | 50.1 \pm 1.8 | 104.7 \pm 1.4 (54.5 \pm 2.9) | 12.1 (6.3) |
| 125.0ppm | 21.9 \pm 0.1 | 50.7 \pm 2.1 | 103.9 \pm 1.5 (55.6 \pm 2.7) | 12.0 (6.4) |
| 250.0ppm | 21.6 \pm 0.2 | 49.0 \pm 2.9 | 104.3 \pm 1.3 (55.6 \pm 2.7) | 12.0 (6.4) |
| 500.0ppm | 21.7 \pm 0.3 | 49.7 \pm 4.8 | 104.9 \pm 1.1 (53.3 \pm 1.1) | 12.1 (6.2) |
| 1000.0ppm | 21.6 \pm 0.5 | 52.5 \pm 8.0 | 104.9 \pm 0.6 (52.7 \pm 0.0) | 12.1 (6.1) |

() : during exposure

APPENDIX L 1

METHODS FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 2-WEEK INHALATION STUDY OF GLYCIDOL

METHODS FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 2-WEEK INHALATION STUDY OF GLYCIDOL

| Item | Method |
|--|--|
| Hematology | |
| Red blood cell (RBC) | Light scattering method ¹⁾ |
| Hemoglobin (Hgb) | Cyanmethemoglobin method ¹⁾ |
| Hematocrit (Hct) | Calculated as $RBC \times MCV/10$ ¹⁾ |
| Mean corpuscular volume (MCV) | Light scattering method ¹⁾ |
| Mean corpuscular hemoglobin (MCH) | Calculated as $Hgb/RBC \times 10$ ¹⁾ |
| Mean corpuscular hemoglobin concentration (MCHC) | Calculated as $Hgb/Hct \times 100$ ¹⁾ |
| Platelet | Light scattering method ¹⁾ |
| White blood cell (WBC) | Light scattering method ¹⁾ |
| Differential WBC | Pattern recognition method ²⁾ (May-Grunwald-Giemsa staining) |
| Biochemistry | |
| Total protein (TP) | Biuret method ³⁾ |
| Albumin (Alb) | BCG method ³⁾ |
| A/G ratio | Calculated as $Alb/(TP - Alb)$ ³⁾ |
| T-bilirubin | Alkaline azobilirubin method ³⁾ |
| Glucose | Enzymatic method (GLK·G-6-PDH) ³⁾ |
| T-cholesterol | Enzymatic method (CE·COD·POD) ³⁾ |
| Triglyceride | Enzymatic method (LPL·GK·GPO·POD) ³⁾ |
| Phospholipid | Enzymatic method (PLD·COD·POD) ³⁾ |
| Glutamic oxaloacetic transaminase (GOT) | UV·Rate method ³⁾ |
| Glutamic pyruvic transaminase (GPT) | UV·Rate method ³⁾ |
| Lactate dehydrogenase (LDH) | UV·Rate method ³⁾ |
| Alkaline phosphatase (ALP) | p-Nitrophenylphosphate method ³⁾ |
| γ -Glutamyl transpeptidase (γ -GTP) | L- γ -Glutamyl-p-nitroanilide method ³⁾ |
| Creatine phosphokinase (CPK) | UV·Rate method ³⁾ |
| Urea nitrogen | Enzymatic method (Urease·GLDH) ³⁾ |
| Sodium | Ion selective electrode method ³⁾ |
| Potassium | Ion selective electrode method ³⁾ |
| Chloride | Ion selective electrode method ³⁾ |
| Calcium | OCPC method ³⁾ |
| Inorganic phosphorus | Enzymatic method (PNP·XOD·POD) ³⁾ |

1) Automatic blood cell analyzer (Technicon H·1 : Technicon Instruments Corporation, USA)

2) Automatic blood cell differential analyzer (Hitachi 8200 : Hitachi, Ltd., Japan)

3) Automatic analyzer (Hitachi 7070 : Hitachi, Ltd., Japan)

APPENDIX L 2

UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY IN THE
2-WEEK INHALATION STUDY OF GLYCIDOL

UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY
IN THE 2-WEEK INHALATION STUDY OF GLYCIDOL

| Item | Unit | Decimal place |
|--|-----------------------------|---------------|
| Hematology | | |
| Red blood cell (RBC) | $\times 10^6 / \mu\text{L}$ | 2 |
| Hemoglobin | g/dL | 1 |
| Hematocrit | % | 1 |
| Mean corpuscular volume (MCV) | fL | 1 |
| Mean corpuscular hemoglobin (MCH) | pg | 1 |
| Mean corpuscular hemoglobin concentration (MCHC) | g/dL | 1 |
| Platelet | $\times 10^3 / \mu\text{L}$ | 0 |
| White blood cell (WBC) | $\times 10^3 / \mu\text{L}$ | 2 |
| Differential WBC | % | 0 |
| Biochemistry | | |
| Total protein | g/dL | 1 |
| Albumin | g/dL | 1 |
| A/G ratio | — | 1 |
| T-bilirubin | mg/dL | 2 |
| Glucose | mg/dL | 0 |
| T-cholesterol | mg/dL | 0 |
| Triglyceride | mg/dL | 0 |
| Phospholipid | mg/dL | 0 |
| Glutamic oxaloacetic transaminase (GOT) | IU/L | 0 |
| Glutamic pyruvic transaminase (GPT) | IU/L | 0 |
| Lactate dehydrogenase (LDH) | IU/L | 0 |
| Alkaline phosphatase (ALP) | IU/L | 0 |
| γ -Glutamyl transpeptidase (γ -GTP) | IU/L | 0 |
| Creatine phosphokinase (CPK) | IU/L | 0 |
| Urea nitrogen | mg/dL | 1 |
| Sodium | mEq/L | 0 |
| Potassium | mEq/L | 1 |
| Chloride | mEq/L | 0 |
| Calcium | mg/dL | 1 |
| Inorganic phosphorus | mg/dL | 1 |