

グリオキサルのラット及びマウスを用いた
経口投与によるがん原性予備試験(混水試験)報告書

試験番号

2 週間試験：ラット/0222；マウス/0223

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TABLES

TABLES

- TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS
IN THE DRINKING STUDIES OF GLYOXAL
- TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE RAT
(TWO-WEEK STUDY)
- TABLE 3 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE RAT
(TWO-WEEK STUDY)
- TABLE 4 WATER CONSUMPTION IN MALE RAT (TWO-WEEK STUDY)
- TABLE 5 WATER CONSUMPTION IN FEMALE RAT (TWO-WEEK STUDY)
- TABLE 6 FOOD CONSUMPTION IN MALE RAT (TWO-WEEK STUDY)
- TABLE 7 FOOD CONSUMPTION IN FEMALE RAT (TWO-WEEK STUDY)
- TABLE 8 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE RAT
(THIRTEEN-WEEK STUDY)
- TABLE 9 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE RAT
(THIRTEEN-WEEK STUDY)
- TABLE 10 WATER CONSUMPTION IN MALE RAT (THIRTEEN-WEEK STUDY)
- TABLE 11 WATER CONSUMPTION IN FEMALE RAT (THIRTEEN-WEEK STUDY)
- TABLE 12 FOOD CONSUMPTION IN MALE RAT (THIRTEEN-WEEK STUDY)
- TABLE 13 FOOD CONSUMPTION IN FEMALE RAT (THIRTEEN-WEEK STUDY)

TABLES_(CONTINUED)

TABLE 14 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE MOUSE
(TWO-WEEK STUDY)

TABLE 15 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE
(TWO-WEEK STUDY)

TABLE 16 WATER CONSUMPTION IN MALE MOUSE (TWO-WEEK STUDY)

TABLE 17 WATER CONSUMPTION IN FEMALE MOUSE (TWO-WEEK STUDY)

TABLE 18 FOOD CONSUMPTION IN MALE MOUSE (TWO-WEEK STUDY)

TABLE 19 FOOD CONSUMPTION IN FEMALE MOUSE (TWO-WEEK STUDY)

TABLE 20 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE MOUSE
(THIRTEEN-WEEK STUDY)

TABLE 21 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE
(THIRTEEN-WEEK STUDY)

TABLE 22 WATER CONSUMPTION IN MALE MOUSE (THIRTEEN-WEEK STUDY)

TABLE 23 WATER CONSUMPTION IN FEMALE MOUSE (THIRTEEN-WEEK STUDY)

TABLE 24 FOOD CONSUMPTION IN MALE MOUSE (THIRTEEN-WEEK STUDY)

TABLE 25 FOOD CONSUMPTION IN FEMALE MOUSE (THIRTEEN-WEEK STUDY)

TABLE 26 HEIGHT OF GASTRIC MUCOSA(FUNDUS) IN RATS (THIRTEEN-WEEK STUDY)

TABLE 27 HEIGHT OF GASTRIC MUCOSA(FUNDUS) IN MICE (THIRTEEN-WEEK STUDY)

TABLE 1

EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE DRINKING WATER STUDIES OF GLYOXAL

| Two-week Studies | Thirteen-week Studies |
|--|---|
| <Method of Administration> Drinking water | Drinking water |
| <Number of Groups> Male 6, Female 6 | Male 6, Female 6 |
| <Size of Groups> 10 males and 10 females of each groups | 10 males and 10 females of each groups |
| <Animals> Strain and Species F344/DuCrj(Fischer)rat Crj:BDF1 mouse Animal Source Charles River Japan, Inc. Duration Held Before Study 2 wk Age When Placed on Study 6 wk Age When Killed 8 wk | F344/DuCrj(Fischer)rat Crj:BDF1 mouse Charles River Japan, Inc. 2 wk 6 wk 19 wk |
| <Doses> Rat--0, 1778, 2667, 4000, 6000, or 9000ppm; Mouse--0, 1778, 2667, 4000, 6000, or 9000ppm | Rat--0, 250, 500, 1000, 2000 or 4000ppm; Mouse--0, 500, 1000, 2000, 4000, or 8000ppm |
| <Duration of Dosing> 7d/wk for 2wk | 7d/wk for 13wk |
| <Animal Maintenance> Feed CRF-1 (Oriental Yeast Co.,Ltd.) Sterilized by γ -ray Available <i>ad libitum</i> Water Filtrated and sterilized by ultraviolet ray Automatic watering system in duration of quarantine Glass bottle in duration of acclimation and administration Available <i>ad libitum</i> Animal per Cage Single (stainless steel wire) Animal Room Environment Barrier system Temperature: 24 ± 2 °C Humidity : $55 \pm 10\%$ Fluorescent light 12h/d 15-17 room air changes /h | Same as two-week studies Same as two-week studies Same as two-week studies Same as two-week studies |
| <Type and Frequency of Observation> Clinical sign Observed 1 \times d Body weight Weighed 0-0, 1-2,1-4,1-7, 2-4, and 2-7 (wk-d) Food Consumption Weighed 1-7, 2-7 (wk-d) Water Consumption Weighed 1-4, 1-7, 2-4, and 2-7 (wk-d) | Observed 1 \times d Weighed 1 \times wk for 13wk Weighed 1 \times wk for 13wk Weighed 1 \times wk for 13wk |

(Continues)

TABLE 1

EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE DRINKING WATER STUDIES OF GLYOXAL
(Continued)

| Two-week Studies | Thirteen-week Studies |
|--|--|
| <p><Hematology> Hematological examination performed on at least five animals per sex per groups.</p> <p>Red blood cell (RBC), Hemoglobin, Hematocrit, Mean corpuscular volume (MCV), Mean corpuscular hemoglobin (MCH), Mean corpuscular hemoglobin concentration (MCHC), Platelete, Reticulocyte <rat only>, Prothrombin time <rat only>, APTT <rat only> White blood cell (WBC), Differential WBC.</p> | <p>Hematological examination performed on scheduled sacrificed animals.</p> <p>Red blood cell (RBC), Hemoglobin, Hematocrit, Mean corpuscular volume (MCV), Mean corpuscular hemoglobin (MCH), Mean corpuscular hemoglobin concentration (MCHC), Platelete, White blood cell (WBC), Differential WBC.</p> |
| <p><Biochemistry> Biochemical examination performed on at least five animals per sex per groups.</p> <p>Total protein, Albumin, A/G ratio, T-bilirubin, Glucose, T-cholesterol, Phospholipid <rat only>, Glutamic oxaloacetic transaminase (GOT), Glutamic pyruvic transaminase (GPT), Lactate dehydrogenase (LDH), γ-Glutamyl transpeptidase (G-GTP) <rat only>, Creatine phosphokinase (CPK), Urea nitrogen, Creatinine <rat only>, Sodium, Potassium, Chloride, Calcium, Inorganic phosphorus.</p> | <p>Biochemical examination performed on scheduled sacrificed animals.</p> <p>Total protein, Albumin, A/G ratio, T-bilirubin, Glucose, T-cholesterol, Triglyceride, Phospholipid <rat only>, Glutamic oxaloacetic transaminase (GOT), Glutamic pyruvic transaminase (GPT), Lactate dehydrogenase (LDH), Alkaline phosphatase (ALP), γ-Glutamyl transpeptidase (G-GTP) <rat only>, Creatine phosphokinase (CPK), Urea nitrogen, Creatinine <rat only>, Sodium, Potassium, Chloride, Calcium, Inorganic phosphorus.</p> |
| <p><Urinalysis> None</p> | <p>pH, Protein, Glucose, Ketone body, Bilirubin <rat only>, Occult blood, Urobilinogen.</p> |
| <p><Necropsy> Necropsy performed on all animals.</p> | <p>Same as two-week studies</p> |
| <p><Organ weight> Organ weight performed on at least five animals per sex per group. The following organs were weighed: brain, lung, liver, spleen, heart, kidney adrenal, testis, ovary, thymus</p> | <p>Organ weight measurement performed on scheduled sacrificed animals. The following organs were weighed: brain, lung, liver, spleen, heart, kidney, adrenal, testis, ovary, thymus.</p> |
| <p><Histopathologic Examination> Histopathologic examination performed on at least two animals per sex per groups.</p> <p>The following organs were examined: skin, nasal cavity, trachea, lung, bone marrow, lymph node, thymus, spleen, heart, tongue, salivary gland, esophagus, stomach, small intestine, large intestine, liver, pancreas, kidney, urinary bladder, pituitary, thyroid, adrenal, testis, epididymis, seminal vesicle, prostate, ovary, uterus, vagina, mammary gland, brain, spinal cord, peripheral nerve, eye, Harderian gland, muscle, bone.</p> | <p>Histopathologic examination performed on all animals.</p> <p>Same as two-week studies.</p> |

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE RAT (TWO--WEEK STUDY)

| Week-Day on Study | Control | | | 1778ppm | | | 2667ppm | | | 4000ppm | | | 6000ppm | | | 9000ppm | | |
|----------------------|----------------|--------------------------|--------------------------|----------------|-----------------------|--------------------------|----------------|-----------------------|--------------------------|----------------|-----------------------|--------------------------|----------------|-----------------------|--------------------------|----------------|-----------------------|--------------------------|
| | Au.Wt. <10> | No.of Surviv. <10> | No.of Surviv. <10> | Au.Wt. <10> | % of cont. <10> | No.of Surviv. <10> | Au.Wt. <10> | % of cont. <10> | No.of Surviv. <10> | Au.Wt. <10> | % of cont. <10> | No.of Surviv. <10> | Au.Wt. <10> | % of cont. <10> | No.of Surviv. <10> | Au.Wt. <10> | % of cont. <10> | No.of Surviv. <10> |
| 0-0 | 128 (10) | 10/10 | 10/10 | 128 (10) | 100 | 10/10 | 128 (10) | 100 | 10/10 | 128 (10) | 100 | 10/10 | 128 (10) | 100 | 10/10 | 128 (10) | 100 | 10/10 |
| 1-1 | 133 (10) | 10/10 | 10/10 | 128 (10) | 96 | 10/10 | 126 (10) | 96 | 10/10 | 121 (10) | 93 | 10/10 | 121 (10) | 91 | 10/10 | 119 (10) | 89 | 10/10 |
| 1-2 | 136 (10) | 10/10 | 10/10 | 132 (10) | 97 | 10/10 | 128 (10) | 94 | 10/10 | 121 (10) | 89 | 10/10 | 116 (10) | 85 | 10/10 | 111 (10) | 82 | 10/10 |
| 1-4 | 143 (10) | 10/10 | 10/10 | 139 (10) | 97 | 10/10 | 134 (10) | 94 | 10/10 | 121 (10) | 85 | 10/10 | 110 (10) | 77 | 10/10 | 100 (10) | 70 | 10/10 |
| 1-7 | 154 (10) | 10/10 | 10/10 | 149 (10) | 97 | 10/10 | 144 (10) | 94 | 10/10 | 129 (10) | 84 | 10/10 | 109 (10) | 71 | 10/10 | 87 (10) | 56 | 10/10 |
| 2-3 | 166 (10) | 10/10 | 10/10 | 160 (10) | 96 | 10/10 | 155 (10) | 93 | 10/10 | 139 (10) | 84 | 10/10 | 113 (10) | 68 | 10/10 | 79 (10) | 48 | 8/10 |
| 2-7 | 178 (10) | 10/10 | 10/10 | 170 (10) | 96 | 10/10 | 165 (10) | 93 | 10/10 | 149 (10) | 84 | 10/10 | 122 (10) | 69 | 10/10 | 85 (5) | 48 | 5/10 |

< >:No.of effective animals,():No.of measured animals Au.Wt.: g

TABLE 3 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE RAT (TWO--WEEK STUDY)

| Week-Day on Study | Control | | | 1778ppm | | | 2667ppm | | | 4000ppm | | | 6000ppm | | | 9000ppm | | |
|----------------------|----------------|--------------------------|--------------------------|----------------|-----------------------|--------------------------|----------------|-----------------------|--------------------------|----------------|-----------------------|--------------------------|----------------|-----------------------|--------------------------|----------------|-----------------------|--------------------------|
| | Au.Wt. <10> | No.of Surviv. <10> | No.of Surviv. <10> | Au.Wt. <10> | % of cont. <10> | No.of Surviv. <10> | Au.Wt. <10> | % of cont. <10> | No.of Surviv. <10> | Au.Wt. <10> | % of cont. <10> | No.of Surviv. <10> | Au.Wt. <10> | % of cont. <10> | No.of Surviv. <10> | Au.Wt. <10> | % of cont. <10> | No.of Surviv. <10> |
| 0-0 | 106 (10) | 10/10 | 10/10 | 106 (10) | 100 | 10/10 | 106 (10) | 100 | 10/10 | 106 (10) | 100 | 10/10 | 106 (10) | 100 | 10/10 | 106 (10) | 100 | 10/10 |
| 1-1 | 109 (10) | 10/10 | 10/10 | 105 (10) | 96 | 10/10 | 103 (10) | 94 | 10/10 | 101 (10) | 93 | 10/10 | 99 (10) | 91 | 10/10 | 98 (10) | 90 | 10/10 |
| 1-2 | 110 (10) | 10/10 | 10/10 | 107 (10) | 97 | 10/10 | 104 (10) | 95 | 10/10 | 98 (10) | 89 | 10/10 | 94 (10) | 85 | 10/10 | 91 (10) | 83 | 10/10 |
| 1-4 | 112 (10) | 10/10 | 10/10 | 111 (10) | 99 | 10/10 | 108 (10) | 96 | 10/10 | 100 (10) | 89 | 10/10 | 89 (10) | 79 | 10/10 | 82 (10) | 73 | 10/10 |
| 1-7 | 119 (10) | 10/10 | 10/10 | 117 (10) | 98 | 10/10 | 112 (10) | 94 | 10/10 | 106 (10) | 89 | 10/10 | 89 (10) | 75 | 10/10 | 70 (10) | 59 | 9/10 |
| 2-3 | 124 (10) | 10/10 | 10/10 | 122 (10) | 98 | 10/10 | 118 (10) | 95 | 10/10 | 111 (10) | 90 | 10/10 | 91 (10) | 73 | 10/10 | 64 (6) | 52 | 6/10 |
| 2-7 | 129 (10) | 10/10 | 10/10 | 126 (10) | 98 | 10/10 | 122 (10) | 95 | 10/10 | 116 (10) | 90 | 10/10 | 103 (9) | 80 | 9/10 | 68 (1) | 53 | 1/10 |

< >:No.of effective animals,():No.of measured animals Au.Wt.: g

TABLE 4 WATER CONSUMPTION IN MALE RAT (TWO-WEEK STUDY)

| Week-Day on Study | Control | | 1778ppm | | | 2667ppm | | | 4000ppm | | | 6000ppm | | | 8000ppm | | |
|----------------------|-----------|---------------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | Au.WC. | No. of Surviv. <10> | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. |
| 1-3 | 17.8 (10) | 10/10 | 13.1 (10) | 74 | 10/10 | 11.4 (10) | 64 | 10/10 | 7.7 (10) | 43 | 10/10 | 4.6 (10) | 26 | 10/10 | 3.1 (10) | 17 | 10/10 |
| 1-7 | 17.8 (10) | 10/10 | 13.5 (10) | 75 | 10/10 | 13.5 (10) | 75 | 10/10 | 11.1 (10) | 62 | 10/10 | 6.3 (10) | 35 | 10/10 | 3.1 (10) | 17 | 10/10 |
| 2-3 | 19.4 (10) | 10/10 | 15.2 (10) | 78 | 10/10 | 14.3 (10) | 74 | 10/10 | 13.8 (10) | 71 | 10/10 | 9.1 (10) | 47 | 10/10 | 3.7 (10) | 19 | 8/10 |
| 2-7 | 18.7 (10) | 10/10 | 13.6 (10) | 73 | 10/10 | 12.9 (10) | 69 | 10/10 | 12.3 (10) | 66 | 10/10 | 9.0 (10) | 48 | 10/10 | 4.8 (5) | 26 | 5/10 |

< >:No. of effective animals, ():No. of measured animals Au.WC.: g

TABLE 5 WATER CONSUMPTION IN FEMALE RAT (TWO-WEEK STUDY)

| Week-Day on Study | Control | | 1778ppm | | | 2667ppm | | | 4000ppm | | | 6000ppm | | | 8000ppm | | |
|----------------------|-----------|---------------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | Au.WC. | No. of Surviv. <10> | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. |
| 1-3 | 16.5 (10) | 10/10 | 11.8 (10) | 72 | 10/10 | 10.2 (10) | 62 | 10/10 | 7.4 (10) | 45 | 10/10 | 4.6 (10) | 28 | 10/10 | 2.8 (10) | 17 | 10/10 |
| 1-7 | 16.7 (10) | 10/10 | 11.4 (10) | 68 | 10/10 | 10.8 (10) | 65 | 10/10 | 10.0 (10) | 60 | 10/10 | 6.6 (10) | 40 | 10/10 | 2.8 (10) | 17 | 9/10 |
| 2-3 | 17.8 (10) | 10/10 | 12.7 (10) | 71 | 10/10 | 12.5 (10) | 70 | 10/10 | 11.6 (10) | 65 | 10/10 | 9.9 (10) | 56 | 10/10 | 4.9 (6) | 28 | 6/10 |
| 2-7 | 16.6 (10) | 10/10 | 10.6 (10) | 64 | 10/10 | 10.0 (10) | 60 | 10/10 | 9.2 (10) | 55 | 10/10 | 9.2 (9) | 55 | 9/10 | 4.6 (1) | 28 | 1/10 |

< >:No. of effective animals, ():No. of measured animals Au.WC.: g

TABLE 6 FOOD CONSUMPTION IN MALE RAT (TWO-WEEK STUDY)

| Week-Day on Study | Control | | 1778ppm | | | 2667ppm | | | 4000ppm | | | 6000ppm | | | 9000ppm | | |
|----------------------|-----------|---------------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | AU.F.C. | No. of Surviv. <10> | AU.F.C. | % of cont. <10> | No. of Surviv. | AU.F.C. | % of cont. <10> | No. of Surviv. | AU.F.C. | % of cont. <10> | No. of Surviv. | AU.F.C. | % of cont. <10> | No. of Surviv. | AU.F.C. | % of cont. <10> | No. of Surviv. |
| 1-7 | 13.8 (10) | 10/10 | 12.5 (10) | 91 | 10/10 | 11.8 (10) | 86 | 10/10 | 9.3 (10) | 67 | 10/10 | 6.7 (10) | 49 | 10/10 | 4.3 (10) | 31 | 10/10 |
| 2-7 | 14.9 (10) | 10/10 | 13.8 (10) | 93 | 10/10 | 13.6 (10) | 91 | 10/10 | 12.3 (10) | 83 | 10/10 | 9.4 (10) | 63 | 10/10 | 5.7 (5) | 38 | 5/10 |

< >:No. of effective animals, ():No. of measured animals AU.F.C.: g

TABLE 7 FOOD CONSUMPTION IN FEMALE RAT (TWO-WEEK STUDY)

| Week-Day on Study | Control | | 1778ppm | | | 2667ppm | | | 4000ppm | | | 6000ppm | | | 9000ppm | | |
|----------------------|-----------|---------------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | AU.F.C. | No. of Surviv. <10> | AU.F.C. | % of cont. <10> | No. of Surviv. | AU.F.C. | % of cont. <10> | No. of Surviv. | AU.F.C. | % of cont. <10> | No. of Surviv. | AU.F.C. | % of cont. <10> | No. of Surviv. | AU.F.C. | % of cont. <10> | No. of Surviv. |
| 1-7 | 11.0 (10) | 10/10 | 10.2 (10) | 93 | 10/10 | 9.2 (10) | 84 | 10/10 | 7.7 (10) | 70 | 10/10 | 5.1 (10) | 46 | 10/10 | 3.3 (10) | 30 | 9/10 |
| 2-7 | 11.2 (10) | 10/10 | 11.0 (10) | 98 | 10/10 | 10.6 (10) | 95 | 10/10 | 10.0 (10) | 89 | 10/10 | 8.5 (9) | 76 | 9/10 | 5.0 (1) | 45 | 1/10 |

< >:No. of effective animals, ():No. of measured animals AU.F.C.: g

TABLE 8 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE RAT (THIRTEEN-WEEK STUDY)

| Week-Day on Study | Control | | 250 ppm | | | 500 ppm | | | 1000 ppm | | | 2000 ppm | | | 4000 ppm | | |
|----------------------|----------|---------------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | Au.Wt. | No. of Surviv. <10> | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. |
| 0-0 | 122 (10) | 10/10 | 122 (10) | 100 | 10/10 | 122 (10) | 100 | 10/10 | 122 (10) | 100 | 10/10 | 122 (10) | 100 | 10/10 | 122 (10) | 100 | 10/10 |
| 1-7 | 145 (10) | 10/10 | 143 (10) | 99 | 10/10 | 144 (10) | 99 | 10/10 | 143 (10) | 99 | 10/10 | 141 (10) | 97 | 10/10 | 126 (10) | 87 | 10/10 |
| 2-7 | 174 (10) | 10/10 | 169 (10) | 97 | 10/10 | 173 (10) | 99 | 10/10 | 168 (10) | 97 | 10/10 | 165 (10) | 95 | 10/10 | 144 (10) | 83 | 10/10 |
| 3-7 | 195 (10) | 10/10 | 187 (10) | 96 | 10/10 | 194 (10) | 99 | 10/10 | 186 (10) | 95 | 10/10 | 185 (10) | 95 | 10/10 | 159 (10) | 82 | 10/10 |
| 4-7 | 207 (10) | 10/10 | 201 (10) | 97 | 10/10 | 211 (10) | 102 | 10/10 | 202 (10) | 98 | 10/10 | 201 (10) | 97 | 10/10 | 172 (10) | 83 | 10/10 |
| 5-7 | 222 (10) | 10/10 | 211 (10) | 95 | 10/10 | 222 (10) | 100 | 10/10 | 214 (10) | 96 | 10/10 | 214 (10) | 96 | 10/10 | 183 (10) | 82 | 10/10 |
| 6-7 | 240 (10) | 10/10 | 226 (10) | 94 | 10/10 | 239 (10) | 100 | 10/10 | 230 (10) | 96 | 10/10 | 228 (10) | 95 | 10/10 | 195 (10) | 81 | 10/10 |
| 7-7 | 251 (10) | 10/10 | 237 (10) | 94 | 10/10 | 252 (10) | 100 | 10/10 | 240 (10) | 96 | 10/10 | 239 (10) | 95 | 10/10 | 204 (10) | 81 | 10/10 |
| 8-7 | 260 (10) | 10/10 | 244 (10) | 94 | 10/10 | 260 (10) | 100 | 10/10 | 248 (10) | 95 | 10/10 | 246 (10) | 95 | 10/10 | 211 (10) | 81 | 10/10 |
| 9-7 | 272 (10) | 10/10 | 257 (10) | 94 | 10/10 | 273 (10) | 100 | 10/10 | 259 (10) | 95 | 10/10 | 260 (10) | 96 | 10/10 | 221 (10) | 81 | 10/10 |
| 10-7 | 281 (10) | 10/10 | 264 (10) | 94 | 10/10 | 279 (10) | 99 | 10/10 | 266 (10) | 95 | 10/10 | 268 (10) | 95 | 10/10 | 230 (10) | 82 | 10/10 |
| 11-7 | 284 (10) | 10/10 | 266 (10) | 94 | 10/10 | 281 (10) | 99 | 10/10 | 269 (10) | 95 | 10/10 | 272 (10) | 96 | 10/10 | 234 (10) | 82 | 10/10 |
| 12-7 | 285 (10) | 10/10 | 265 (10) | 93 | 10/10 | 281 (10) | 99 | 10/10 | 269 (10) | 94 | 10/10 | 271 (10) | 95 | 10/10 | 236 (10) | 83 | 10/10 |
| 13-7 | 293 (10) | 10/10 | 273 (10) | 93 | 10/10 | 289 (10) | 99 | 10/10 | 277 (10) | 95 | 10/10 | 278 (10) | 95 | 10/10 | 241 (10) | 82 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.Wt.: g

TABLE 9 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE RAT (THIRTEEN-WEEK STUDY)

| Week-Day on Study | Control | | 250 ppm | | | 500 ppm | | | 1000 ppm | | | 2000 ppm | | | 4000 ppm | | |
|----------------------|----------|---------------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | Au.Wt. | No. of Surviv. <10> | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. |
| 0-0 | 104 (10) | 10/10 | 104 (10) | 100 | 10/10 | 104 (10) | 100 | 10/10 | 104 (10) | 100 | 10/10 | 104 (10) | 100 | 10/10 | 104 (10) | 100 | 10/10 |
| 1-7 | 116 (10) | 10/10 | 117 (10) | 101 | 10/10 | 116 (10) | 100 | 10/10 | 115 (10) | 99 | 10/10 | 112 (10) | 97 | 10/10 | 103 (10) | 89 | 10/10 |
| 2-7 | 129 (10) | 10/10 | 130 (10) | 101 | 10/10 | 131 (10) | 102 | 10/10 | 129 (10) | 100 | 10/10 | 125 (10) | 97 | 10/10 | 115 (10) | 89 | 10/10 |
| 3-7 | 140 (10) | 10/10 | 142 (10) | 101 | 10/10 | 141 (10) | 101 | 10/10 | 139 (10) | 99 | 10/10 | 134 (10) | 96 | 10/10 | 125 (10) | 89 | 10/10 |
| 4-7 | 150 (10) | 10/10 | 151 (10) | 101 | 10/10 | 149 (10) | 99 | 10/10 | 147 (10) | 98 | 10/10 | 141 (10) | 94 | 10/10 | 133 (10) | 89 | 10/10 |
| 5-7 | 156 (10) | 10/10 | 157 (10) | 101 | 10/10 | 155 (10) | 99 | 10/10 | 153 (10) | 98 | 10/10 | 145 (10) | 93 | 10/10 | 137 (10) | 88 | 10/10 |
| 6-7 | 163 (10) | 10/10 | 163 (10) | 100 | 10/10 | 162 (10) | 99 | 10/10 | 159 (10) | 98 | 10/10 | 152 (10) | 93 | 10/10 | 143 (10) | 88 | 10/10 |
| 7-7 | 168 (10) | 10/10 | 168 (10) | 100 | 10/10 | 167 (10) | 99 | 10/10 | 165 (10) | 98 | 10/10 | 157 (10) | 93 | 10/10 | 147 (10) | 88 | 10/10 |
| 8-7 | 171 (10) | 10/10 | 172 (10) | 101 | 10/10 | 168 (10) | 98 | 10/10 | 167 (10) | 98 | 10/10 | 158 (10) | 92 | 10/10 | 150 (10) | 88 | 10/10 |
| 9-7 | 177 (10) | 10/10 | 176 (10) | 99 | 10/10 | 174 (10) | 98 | 10/10 | 172 (10) | 97 | 10/10 | 163 (10) | 92 | 10/10 | 154 (10) | 87 | 10/10 |
| 10-7 | 181 (10) | 10/10 | 182 (10) | 101 | 10/10 | 177 (10) | 98 | 10/10 | 176 (10) | 97 | 10/10 | 167 (10) | 92 | 10/10 | 158 (10) | 87 | 10/10 |
| 11-7 | 183 (10) | 10/10 | 183 (10) | 100 | 10/10 | 178 (10) | 97 | 10/10 | 178 (10) | 97 | 10/10 | 169 (10) | 92 | 10/10 | 159 (10) | 87 | 10/10 |
| 12-7 | 181 (10) | 10/10 | 182 (10) | 101 | 10/10 | 176 (10) | 97 | 10/10 | 177 (10) | 98 | 10/10 | 169 (10) | 93 | 10/10 | 158 (10) | 87 | 10/10 |
| 13-7 | 187 (10) | 10/10 | 188 (10) | 101 | 10/10 | 180 (10) | 96 | 10/10 | 181 (10) | 97 | 10/10 | 172 (10) | 92 | 10/10 | 160 (10) | 86 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.Wt.: g

TABLE 10 WATER CONSUMPTION IN MALE RAT (THIRTEEN-WEEK STUDY)

| Week-Day on Study | Control | | 250 ppm | | 500 ppm | | 1000 ppm | | 2000 ppm | | 4000 ppm | | | | | | |
|----------------------|----------------|---------------------------|----------------|-----------------------|---------------------------|----------------|-----------------------|---------------------------|----------------|-----------------------|---------------------------|----------------|-----------------------|---------------------------|-----------|----|-------|
| | Au.WC. <10> | No. of Surviv. <10> | Au.WC. <10> | % of cont. <10> | No. of Surviv. <10> | Au.WC. <10> | % of cont. <10> | No. of Surviv. <10> | Au.WC. <10> | % of cont. <10> | No. of Surviv. <10> | Au.WC. <10> | % of cont. <10> | No. of Surviv. <10> | | | |
| 1-7 | 17.3 (10) | 10/10 | 16.7 (10) | 97 | 10/10 | 17.2 (10) | 99 | 10/10 | 14.9 (10) | 86 | 10/10 | 13.3 (10) | 77 | 10/10 | 11.0 (10) | 64 | 10/10 |
| 2-7 | 18.5 (10) | 10/10 | 17.8 (10) | 96 | 10/10 | 18.5 (10) | 100 | 10/10 | 15.3 (10) | 83 | 10/10 | 14.1 (10) | 76 | 10/10 | 13.3 (9) | 72 | 10/10 |
| 3-7 | 18.9 (10) | 10/10 | 17.6 (10) | 93 | 10/10 | 18.1 (10) | 96 | 10/10 | 15.0 (10) | 79 | 10/10 | 13.7 (10) | 72 | 10/10 | 11.4 (10) | 60 | 10/10 |
| 4-7 | 19.0 (10) | 10/10 | 17.2 (10) | 91 | 10/10 | 18.1 (10) | 95 | 10/10 | 14.6 (10) | 77 | 10/10 | 13.2 (10) | 69 | 10/10 | 10.6 (10) | 56 | 10/10 |
| 5-7 | 16.2 (10) | 10/10 | 14.5 (10) | 90 | 10/10 | 15.7 (10) | 97 | 10/10 | 13.2 (10) | 81 | 10/10 | 12.6 (10) | 78 | 10/10 | 9.7 (10) | 60 | 10/10 |
| 6-7 | 17.6 (10) | 10/10 | 15.3 (10) | 87 | 10/10 | 16.3 (10) | 93 | 10/10 | 14.0 (10) | 80 | 10/10 | 13.1 (10) | 74 | 10/10 | 10.2 (10) | 58 | 10/10 |
| 7-7 | 18.5 (10) | 10/10 | 16.4 (10) | 89 | 10/10 | 17.3 (10) | 94 | 10/10 | 14.1 (10) | 76 | 10/10 | 13.4 (10) | 72 | 10/10 | 10.5 (10) | 57 | 10/10 |
| 8-7 | 16.0 (10) | 10/10 | 15.0 (10) | 94 | 10/10 | 16.4 (10) | 103 | 10/10 | 13.3 (10) | 83 | 10/10 | 12.6 (10) | 79 | 10/10 | 9.5 (10) | 59 | 10/10 |
| 9-7 | 17.5 (10) | 10/10 | 16.7 (10) | 95 | 10/10 | 19.7 (10) | 113 | 10/10 | 14.8 (10) | 85 | 10/10 | 14.0 (10) | 80 | 10/10 | 10.8 (10) | 62 | 10/10 |
| 10-7 | 17.8 (10) | 10/10 | 16.3 (10) | 92 | 10/10 | 19.0 (10) | 107 | 10/10 | 14.4 (10) | 81 | 10/10 | 13.4 (10) | 75 | 10/10 | 10.4 (10) | 58 | 10/10 |
| 11-7 | 16.4 (10) | 10/10 | 15.2 (10) | 93 | 10/10 | 16.1 (10) | 98 | 10/10 | 13.5 (10) | 82 | 10/10 | 13.3 (10) | 81 | 10/10 | 10.4 (10) | 63 | 10/10 |
| 12-7 | 15.3 (10) | 10/10 | 14.2 (10) | 93 | 10/10 | 15.4 (10) | 101 | 10/10 | 12.6 (10) | 82 | 10/10 | 12.1 (10) | 79 | 10/10 | 9.5 (10) | 62 | 10/10 |
| 13-7 | 15.1 (10) | 10/10 | 14.5 (10) | 96 | 10/10 | 15.8 (10) | 105 | 10/10 | 13.2 (10) | 87 | 10/10 | 12.7 (10) | 84 | 10/10 | 10.1 (10) | 67 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.WC.: g

TABLE 11 WATER CONSUMPTION IN FEMALE RAT (THIRTEEN-WEEK STUDY)

| Week-Day on Study | Control | | 250 ppm | | 500 ppm | | 1000 ppm | | 2000 ppm | | 4000 ppm | | | | | | |
|----------------------|----------------|---------------------------|----------------|-----------------------|---------------------------|----------------|-----------------------|---------------------------|----------------|-----------------------|---------------------------|----------------|-----------------------|---------------------------|-----------|----|-------|
| | Au.WC. <10> | No. of Surviv. <10> | Au.WC. <10> | % of cont. <10> | No. of Surviv. <10> | Au.WC. <10> | % of cont. <10> | No. of Surviv. <10> | Au.WC. <10> | % of cont. <10> | No. of Surviv. <10> | Au.WC. <10> | % of cont. <10> | No. of Surviv. <10> | | | |
| 1-7 | 17.6 (10) | 10/10 | 15.8 (10) | 90 | 10/10 | 16.6 (10) | 94 | 10/10 | 13.1 (10) | 74 | 10/10 | 11.3 (10) | 64 | 10/10 | 10.0 (10) | 57 | 10/10 |
| 2-7 | 17.3 (10) | 10/10 | 15.6 (10) | 90 | 10/10 | 16.8 (10) | 97 | 10/10 | 13.9 (10) | 80 | 10/10 | 11.5 (10) | 66 | 10/10 | 9.8 (10) | 57 | 10/10 |
| 3-7 | 16.6 (10) | 10/10 | 15.8 (10) | 95 | 10/10 | 15.8 (9) | 95 | 10/10 | 12.7 (9) | 77 | 10/10 | 11.4 (10) | 69 | 10/10 | 9.5 (10) | 57 | 10/10 |
| 4-7 | 17.1 (10) | 10/10 | 15.4 (10) | 90 | 10/10 | 15.9 (10) | 93 | 10/10 | 13.0 (9) | 76 | 10/10 | 10.9 (10) | 64 | 10/10 | 9.1 (10) | 53 | 10/10 |
| 5-7 | 15.0 (10) | 10/10 | 13.9 (10) | 93 | 10/10 | 15.4 (10) | 103 | 10/10 | 13.1 (10) | 87 | 10/10 | 9.8 (10) | 65 | 10/10 | 8.3 (10) | 55 | 10/10 |
| 6-7 | 15.0 (10) | 10/10 | 14.2 (10) | 95 | 10/10 | 17.5 (10) | 117 | 10/10 | 12.1 (10) | 81 | 10/10 | 9.9 (10) | 66 | 10/10 | 8.7 (10) | 58 | 10/10 |
| 7-7 | 14.8 (9) | 10/10 | 14.8 (10) | 100 | 10/10 | 14.8 (9) | 100 | 10/10 | 13.4 (10) | 91 | 10/10 | 10.1 (10) | 68 | 10/10 | 8.7 (10) | 59 | 10/10 |
| 8-7 | 15.0 (10) | 10/10 | 13.8 (10) | 92 | 10/10 | 12.8 (9) | 85 | 10/10 | 11.8 (10) | 79 | 10/10 | 9.2 (10) | 61 | 10/10 | 7.9 (10) | 53 | 10/10 |
| 9-7 | 14.5 (9) | 10/10 | 14.3 (10) | 99 | 10/10 | 17.0 (10) | 117 | 10/10 | 13.0 (9) | 90 | 10/10 | 9.9 (10) | 68 | 10/10 | 8.6 (10) | 59 | 10/10 |
| 10-7 | 17.3 (10) | 10/10 | 15.1 (10) | 87 | 10/10 | 18.5 (10) | 107 | 10/10 | 11.6 (8) | 67 | 10/10 | 10.0 (10) | 58 | 10/10 | 8.5 (10) | 49 | 10/10 |
| 11-7 | 16.8 (10) | 10/10 | 15.1 (10) | 90 | 10/10 | 15.4 (10) | 92 | 10/10 | 14.9 (10) | 89 | 10/10 | 9.9 (10) | 59 | 10/10 | 8.2 (10) | 49 | 10/10 |
| 12-7 | 13.6 (10) | 10/10 | 13.4 (10) | 99 | 10/10 | 12.3 (9) | 90 | 10/10 | 12.9 (10) | 95 | 10/10 | 8.9 (10) | 65 | 10/10 | 7.5 (10) | 55 | 10/10 |
| 13-7 | 14.1 (9) | 10/10 | 14.0 (10) | 98 | 10/10 | 14.1 (10) | 100 | 10/10 | 13.3 (10) | 94 | 10/10 | 9.5 (10) | 67 | 10/10 | 7.9 (10) | 56 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.WC.: g

TABLE 12 FOOD CONSUMPTION IN MALE RAT (THIRTEEN--WEEK STUDY)

| Week-Day on Study | Control | | 250 ppm | | | 500 ppm | | | 1000 ppm | | | 2000 ppm | | | 4000 ppm | | |
|----------------------|-----------------|--------------------------|-----------|-----------------------|------------------|-----------|-----------------------|------------------|-----------|-----------------------|------------------|-----------|-----------------------|------------------|-----------|-----------------------|------------------|
| | Au.F.C. <10> | No.of Surviv. <10> | Au.F.C. | % of cont. <10> | No.of Surviv. | Au.F.C. | % of cont. <10> | No.of Surviv. | Au.F.C. | % of cont. <10> | No.of Surviv. | Au.F.C. | % of cont. <10> | No.of Surviv. | Au.F.C. | % of cont. <10> | No.of Surviv. |
| 1-7 | 13.1 (10) | 10/10 | 12.7 (10) | 97 | 10/10 | 13.1 (10) | 100 | 10/10 | 12.5 (10) | 95 | 10/10 | 11.8 (10) | 90 | 10/10 | 9.5 (10) | 73 | 10/10 |
| 2-7 | 14.4 (10) | 10/10 | 14.0 (10) | 97 | 10/10 | 14.6 (10) | 101 | 10/10 | 14.2 (10) | 99 | 10/10 | 13.8 (10) | 96 | 10/10 | 12.4 (10) | 86 | 10/10 |
| 3-7 | 15.3 (10) | 10/10 | 14.6 (10) | 95 | 10/10 | 15.4 (10) | 101 | 10/10 | 14.6 (10) | 95 | 10/10 | 14.7 (10) | 96 | 10/10 | 13.0 (10) | 85 | 10/10 |
| 4-7 | 14.6 (8) | 10/10 | 14.1 (10) | 97 | 10/10 | 15.3 (10) | 105 | 10/10 | 14.6 (10) | 100 | 10/10 | 14.7 (10) | 101 | 10/10 | 12.7 (10) | 87 | 10/10 |
| 5-7 | 13.7 (10) | 10/10 | 12.3 (10) | 90 | 10/10 | 13.8 (10) | 101 | 10/10 | 13.1 (10) | 96 | 10/10 | 13.5 (10) | 99 | 10/10 | 11.4 (10) | 83 | 10/10 |
| 6-7 | 14.5 (10) | 10/10 | 13.3 (10) | 92 | 10/10 | 14.8 (10) | 102 | 10/10 | 13.8 (10) | 95 | 10/10 | 14.2 (10) | 98 | 10/10 | 12.1 (10) | 83 | 10/10 |
| 7-7 | 14.7 (10) | 10/10 | 13.8 (10) | 94 | 10/10 | 14.9 (10) | 101 | 10/10 | 13.8 (10) | 94 | 10/10 | 14.3 (10) | 97 | 10/10 | 12.4 (10) | 84 | 10/10 |
| 8-7 | 13.8 (10) | 10/10 | 12.7 (10) | 92 | 10/10 | 13.8 (10) | 100 | 10/10 | 13.1 (10) | 95 | 10/10 | 13.8 (10) | 100 | 10/10 | 12.0 (10) | 87 | 10/10 |
| 9-7 | 13.6 (10) | 10/10 | 12.7 (10) | 93 | 10/10 | 14.3 (10) | 105 | 10/10 | 13.1 (10) | 96 | 10/10 | 13.9 (10) | 102 | 10/10 | 12.1 (10) | 89 | 10/10 |
| 10-7 | 14.9 (10) | 10/10 | 13.5 (10) | 91 | 10/10 | 14.6 (10) | 98 | 10/10 | 14.0 (10) | 94 | 10/10 | 14.6 (10) | 98 | 10/10 | 12.9 (10) | 87 | 10/10 |
| 11-7 | 13.7 (10) | 10/10 | 12.5 (10) | 91 | 10/10 | 13.5 (10) | 99 | 10/10 | 13.1 (10) | 96 | 10/10 | 14.0 (10) | 102 | 10/10 | 12.4 (10) | 91 | 10/10 |
| 12-7 | 13.8 (10) | 10/10 | 12.6 (10) | 91 | 10/10 | 13.5 (10) | 98 | 10/10 | 13.0 (10) | 94 | 10/10 | 13.7 (10) | 99 | 10/10 | 12.5 (10) | 91 | 10/10 |
| 13-7 | 13.9 (10) | 10/10 | 13.3 (10) | 96 | 10/10 | 14.0 (10) | 101 | 10/10 | 13.2 (10) | 95 | 10/10 | 13.8 (10) | 99 | 10/10 | 12.6 (10) | 91 | 10/10 |

< >:No.of effective animals,():No.of measured animals Au.F.C.: g

TABLE 13 FOOD CONSUMPTION IN FEMALE RAT (THIRTEEN--WEEK STUDY)

| Week-Day on Study | Control | | 250 ppm | | | 500 ppm | | | 1000 ppm | | | 2000 ppm | | | 4000 ppm | | |
|----------------------|-----------------|--------------------------|-----------|-----------------------|------------------|-----------|-----------------------|------------------|-----------|-----------------------|------------------|-----------|-----------------------|------------------|-----------|-----------------------|------------------|
| | Au.F.C. <10> | No.of Surviv. <10> | Au.F.C. | % of cont. <10> | No.of Surviv. | Au.F.C. | % of cont. <10> | No.of Surviv. | Au.F.C. | % of cont. <10> | No.of Surviv. | Au.F.C. | % of cont. <10> | No.of Surviv. | Au.F.C. | % of cont. <10> | No.of Surviv. |
| 1-7 | 11.5 (10) | 10/10 | 11.2 (10) | 97 | 10/10 | 11.1 (10) | 97 | 10/10 | 11.0 (10) | 96 | 10/10 | 9.8 (10) | 85 | 10/10 | 7.6 (10) | 66 | 10/10 |
| 2-7 | 11.8 (10) | 10/10 | 11.7 (10) | 99 | 10/10 | 11.7 (10) | 99 | 10/10 | 11.7 (10) | 99 | 10/10 | 10.9 (10) | 92 | 10/10 | 10.3 (10) | 87 | 10/10 |
| 3-7 | 12.0 (10) | 10/10 | 11.9 (10) | 99 | 10/10 | 11.8 (10) | 98 | 10/10 | 12.0 (10) | 100 | 10/10 | 11.3 (10) | 94 | 10/10 | 10.8 (10) | 90 | 10/10 |
| 4-7 | 12.3 (10) | 10/10 | 12.2 (10) | 99 | 10/10 | 11.9 (10) | 97 | 10/10 | 12.0 (10) | 98 | 10/10 | 11.3 (10) | 92 | 10/10 | 10.5 (10) | 85 | 10/10 |
| 5-7 | 11.0 (10) | 10/10 | 11.0 (10) | 100 | 10/10 | 10.8 (10) | 98 | 10/10 | 10.8 (10) | 98 | 10/10 | 9.9 (10) | 90 | 10/10 | 9.4 (10) | 85 | 10/10 |
| 6-7 | 11.3 (10) | 10/10 | 11.1 (10) | 98 | 10/10 | 10.9 (10) | 96 | 10/10 | 10.8 (10) | 96 | 10/10 | 10.2 (10) | 90 | 10/10 | 9.7 (10) | 86 | 10/10 |
| 7-7 | 11.2 (10) | 10/10 | 11.2 (10) | 100 | 10/10 | 10.8 (10) | 96 | 10/10 | 10.9 (10) | 97 | 10/10 | 10.3 (10) | 92 | 10/10 | 9.9 (10) | 88 | 10/10 |
| 8-7 | 10.3 (10) | 10/10 | 10.4 (10) | 101 | 10/10 | 10.0 (10) | 97 | 10/10 | 10.3 (10) | 100 | 10/10 | 9.7 (10) | 94 | 10/10 | 9.4 (10) | 91 | 10/10 |
| 9-7 | 10.5 (10) | 10/10 | 10.7 (10) | 102 | 10/10 | 10.3 (10) | 98 | 10/10 | 10.4 (10) | 99 | 10/10 | 9.6 (10) | 91 | 10/10 | 9.0 (10) | 86 | 10/10 |
| 10-7 | 11.0 (10) | 10/10 | 11.2 (10) | 102 | 10/10 | 10.6 (10) | 96 | 10/10 | 10.7 (10) | 97 | 10/10 | 10.1 (10) | 92 | 10/10 | 9.8 (10) | 89 | 10/10 |
| 11-7 | 10.8 (10) | 10/10 | 10.6 (10) | 100 | 10/10 | 10.0 (10) | 94 | 10/10 | 10.4 (10) | 98 | 10/10 | 9.9 (10) | 93 | 10/10 | 9.3 (10) | 88 | 10/10 |
| 12-7 | 10.5 (10) | 10/10 | 10.6 (10) | 101 | 10/10 | 10.4 (10) | 99 | 10/10 | 11.1 (10) | 106 | 10/10 | 10.1 (10) | 96 | 10/10 | 9.7 (10) | 92 | 10/10 |
| 13-7 | 10.8 (10) | 10/10 | 10.7 (10) | 99 | 10/10 | 10.1 (10) | 94 | 10/10 | 10.4 (10) | 96 | 10/10 | 9.7 (10) | 90 | 10/10 | 9.2 (10) | 85 | 10/10 |

< >:No.of effective animals,():No.of measured animals Au.F.C.: g

TABLE 14 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE MOUSE (TWO-WEEK STUDY)

| Week-Day on Study | Control | | 1778ppm | | | 2667ppm | | | 4000ppm | | | 6000ppm | | | 9000ppm | | |
|----------------------|-----------|---------------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|
| | Au.Wt. | No. of Surviv. <10> | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. |
| 0-0 | 23.6 (10) | 10/10 | 23.6 (10) | 100 | 10/10 | 23.6 (10) | 100 | 10/10 | 23.6 (10) | 100 | 10/10 | 23.6 (10) | 100 | 10/10 | 23.6 (10) | 100 | 10/10 |
| 1-1 | 23.1 (10) | 10/10 | 23.1 (10) | 100 | 10/10 | 22.7 (10) | 98 | 10/10 | 22.3 (10) | 97 | 10/10 | 21.6 (10) | 94 | 10/10 | 21.3 (10) | 92 | 10/10 |
| 1-2 | 23.4 (10) | 10/10 | 23.4 (10) | 100 | 10/10 | 22.9 (10) | 98 | 10/10 | 22.4 (10) | 96 | 10/10 | 21.6 (10) | 92 | 10/10 | 20.7 (10) | 88 | 10/10 |
| 1-4 | 23.9 (10) | 10/10 | 24.0 (10) | 100 | 10/10 | 23.6 (10) | 99 | 10/10 | 23.2 (10) | 97 | 10/10 | 22.4 (10) | 94 | 10/10 | 20.9 (10) | 87 | 10/10 |
| 1-7 | 24.0 (10) | 10/10 | 24.4 (10) | 102 | 10/10 | 24.0 (10) | 100 | 10/10 | 23.6 (10) | 98 | 10/10 | 22.9 (10) | 95 | 10/10 | 21.4 (10) | 89 | 10/10 |
| 2-3 | 24.0 (10) | 10/10 | 24.4 (10) | 102 | 10/10 | 23.7 (10) | 99 | 10/10 | 23.7 (10) | 99 | 10/10 | 23.2 (10) | 97 | 10/10 | 21.7 (10) | 90 | 10/10 |
| 2-7 | 24.5 (10) | 10/10 | 24.7 (10) | 101 | 10/10 | 24.1 (10) | 98 | 10/10 | 24.0 (10) | 98 | 10/10 | 23.3 (10) | 95 | 10/10 | 21.7 (10) | 89 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.Wt.: g

TABLE 15 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE (TWO-WEEK STUDY)

| Week-Day on Study | Control | | 1778ppm | | | 2667ppm | | | 4000ppm | | | 6000ppm | | | 9000ppm | | |
|----------------------|-----------|---------------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|
| | Au.Wt. | No. of Surviv. <10> | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. |
| 0-0 | 18.9 (10) | 10/10 | 18.9 (10) | 100 | 10/10 | 18.9 (10) | 100 | 10/10 | 18.9 (10) | 100 | 10/10 | 18.9 (10) | 100 | 10/10 | 18.9 (10) | 100 | 10/10 |
| 1-1 | 18.6 (10) | 10/10 | 18.2 (10) | 98 | 10/10 | 17.7 (10) | 95 | 10/10 | 17.6 (10) | 95 | 10/10 | 16.9 (10) | 91 | 10/10 | 16.6 (10) | 89 | 10/10 |
| 1-2 | 18.4 (10) | 10/10 | 18.5 (10) | 101 | 10/10 | 17.8 (10) | 97 | 10/10 | 17.6 (10) | 96 | 10/10 | 16.6 (10) | 90 | 10/10 | 15.8 (10) | 86 | 10/10 |
| 1-4 | 19.0 (10) | 10/10 | 18.7 (10) | 98 | 10/10 | 18.4 (10) | 97 | 10/10 | 18.6 (10) | 98 | 10/10 | 17.5 (10) | 92 | 10/10 | 16.2 (10) | 85 | 10/10 |
| 1-7 | 19.1 (10) | 10/10 | 19.1 (10) | 100 | 10/10 | 18.9 (10) | 99 | 10/10 | 18.9 (10) | 99 | 10/10 | 18.3 (10) | 96 | 10/10 | 17.1 (10) | 90 | 10/10 |
| 2-3 | 19.4 (10) | 10/10 | 19.3 (10) | 99 | 10/10 | 18.8 (10) | 97 | 10/10 | 19.0 (10) | 98 | 10/10 | 18.8 (10) | 97 | 10/10 | 17.9 (10) | 92 | 10/10 |
| 2-7 | 19.8 (10) | 10/10 | 19.6 (10) | 99 | 10/10 | 19.2 (10) | 97 | 10/10 | 19.4 (10) | 98 | 10/10 | 18.9 (10) | 95 | 10/10 | 18.3 (10) | 92 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.Wt.: g

TABLE 16 WATER CONSUMPTION IN MALE MOUSE (TWO-WEEK STUDY)

| Week-Day on Study | Control | | 1778ppm | | | 2667ppm | | | 4000ppm | | | 6000ppm | | | 8000ppm | | |
|----------------------|----------|---------------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | Au.WC. | No. of Surviv. <10> | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. |
| 1-3 | 3.9 (10) | 10/10 | 3.2 (10) | 82 | 10/10 | 2.6 (10) | 67 | 10/10 | 2.1 (10) | 54 | 10/10 | 1.5 (10) | 38 | 10/10 | 1.0 (10) | 26 | 10/10 |
| 1-7 | 4.0 (10) | 10/10 | 3.2 (10) | 80 | 10/10 | 2.8 (10) | 70 | 10/10 | 2.4 (10) | 60 | 10/10 | 2.1 (10) | 53 | 10/10 | 1.7 (10) | 43 | 10/10 |
| 2-3 | 3.9 (10) | 10/10 | 3.1 (10) | 79 | 10/10 | 2.5 (10) | 64 | 10/10 | 2.1 (10) | 54 | 10/10 | 1.8 (10) | 46 | 10/10 | 1.5 (10) | 38 | 10/10 |
| 2-7 | 3.9 (10) | 10/10 | 3.0 (10) | 77 | 10/10 | 2.5 (10) | 64 | 10/10 | 2.0 (10) | 51 | 10/10 | 1.7 (10) | 44 | 10/10 | 1.5 (10) | 38 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.WC.: g

TABLE 17 WATER CONSUMPTION IN FEMALE MOUSE (TWO-WEEK STUDY)

| Week-Day on Study | Control | | 1778ppm | | | 2667ppm | | | 4000ppm | | | 6000ppm | | | 8000ppm | | |
|----------------------|----------|---------------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | Au.WC. | No. of Surviv. <10> | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. |
| 1-3 | 4.3 (10) | 10/10 | 3.1 (10) | 72 | 10/10 | 2.6 (10) | 60 | 10/10 | 2.1 (10) | 49 | 10/10 | 1.4 (10) | 33 | 10/10 | 0.9 (10) | 21 | 10/10 |
| 1-7 | 4.5 (10) | 10/10 | 3.1 (10) | 69 | 10/10 | 2.8 (10) | 62 | 10/10 | 2.7 (10) | 60 | 10/10 | 2.2 (10) | 49 | 10/10 | 1.8 (10) | 40 | 10/10 |
| 2-3 | 4.5 (10) | 10/10 | 3.2 (10) | 71 | 10/10 | 2.8 (10) | 62 | 10/10 | 2.4 (10) | 53 | 10/10 | 2.1 (10) | 47 | 10/10 | 1.8 (10) | 40 | 10/10 |
| 2-7 | 4.5 (10) | 10/10 | 3.2 (10) | 71 | 10/10 | 2.7 (10) | 60 | 10/10 | 2.4 (10) | 53 | 10/10 | 1.7 (10) | 38 | 10/10 | 1.8 (10) | 40 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.WC.: g

TABLE 18 FOOD CONSUMPTION IN MALE MOUSE (TWO-WEEK STUDY)

| Week-Day on Study | Control | | 1778ppm | | | 2667ppm | | | 4000ppm | | | 6000ppm | | | 9000ppm | | |
|----------------------|----------|---------------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | Au.F.C. | No. of Surviv. <10> | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. |
| 1-7 | 3.5 (10) | 10/10 | 3.5 (10) | 100 | 10/10 | 3.4 (10) | 97 | 10/10 | 3.2 (10) | 91 | 10/10 | 3.1 (10) | 89 | 10/10 | 2.9 (10) | 83 | 10/10 |
| 2-7 | 3.6 (10) | 10/10 | 3.6 (10) | 100 | 10/10 | 3.5 (10) | 97 | 10/10 | 3.5 (10) | 97 | 10/10 | 3.5 (10) | 97 | 10/10 | 3.5 (10) | 97 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.F.C.: g

TABLE 19 FOOD CONSUMPTION IN FEMALE MOUSE (TWO-WEEK STUDY)

| Week-Day on Study | Control | | 1778ppm | | | 2667ppm | | | 4000ppm | | | 6000ppm | | | 9000ppm | | |
|----------------------|----------|---------------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | Au.F.C. | No. of Surviv. <10> | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. |
| 1-7 | 3.2 (10) | 10/10 | 3.0 (10) | 94 | 10/10 | 2.8 (10) | 88 | 10/10 | 2.7 (10) | 84 | 10/10 | 2.6 (10) | 81 | 10/10 | 2.3 (10) | 72 | 10/10 |
| 2-7 | 3.5 (10) | 10/10 | 3.3 (10) | 94 | 10/10 | 3.2 (10) | 91 | 10/10 | 3.1 (10) | 89 | 10/10 | 3.1 (10) | 89 | 10/10 | 3.1 (10) | 89 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.F.C.: g

TABLE 20 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN MALE MOUSE (THIRTEEN-WEEK STUDY)

| Week-Day on Study | Control | | 500 ppm | | | 1000 ppm | | | 2000 ppm | | | 4000 ppm | | | 8000 ppm | | |
|----------------------|-----------|---------------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|
| | Au.Wt. | No. of Surviv. <10> | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. |
| 0-0 | 22.5 (10) | 10/10 | 22.5 (10) | 100 | 10/10 | 22.5 (10) | 100 | 10/10 | 22.5 (10) | 100 | 10/10 | 22.5 (10) | 100 | 10/10 | 22.5 (10) | 100 | 10/10 |
| 1-7 | 22.9 (10) | 10/10 | 22.9 (10) | 100 | 10/10 | 23.1 (10) | 101 | 10/10 | 23.3 (10) | 102 | 10/10 | 22.2 (10) | 97 | 10/10 | 20.9 (10) | 91 | 10/10 |
| 2-7 | 23.8 (10) | 10/10 | 23.8 (10) | 100 | 10/10 | 24.2 (10) | 102 | 10/10 | 24.0 (10) | 101 | 10/10 | 22.6 (10) | 95 | 10/10 | 21.7 (10) | 91 | 10/10 |
| 3-7 | 24.7 (10) | 10/10 | 24.5 (10) | 99 | 10/10 | 24.9 (10) | 101 | 10/10 | 25.1 (10) | 102 | 10/10 | 23.6 (10) | 96 | 10/10 | 22.5 (10) | 91 | 10/10 |
| 4-7 | 25.6 (10) | 10/10 | 25.6 (10) | 100 | 10/10 | 25.8 (10) | 101 | 10/10 | 25.5 (10) | 100 | 10/10 | 24.2 (10) | 95 | 10/10 | 23.2 (10) | 91 | 10/10 |
| 5-7 | 26.4 (10) | 10/10 | 26.0 (10) | 98 | 10/10 | 26.7 (10) | 101 | 10/10 | 26.3 (10) | 100 | 10/10 | 24.7 (10) | 94 | 10/10 | 23.4 (10) | 89 | 10/10 |
| 6-7 | 27.8 (10) | 10/10 | 27.5 (10) | 99 | 10/10 | 27.6 (10) | 99 | 10/10 | 27.3 (10) | 98 | 10/10 | 25.4 (10) | 91 | 10/10 | 24.2 (10) | 87 | 10/10 |
| 7-7 | 28.4 (10) | 10/10 | 28.1 (10) | 99 | 10/10 | 28.4 (10) | 100 | 10/10 | 27.6 (10) | 97 | 10/10 | 25.7 (10) | 90 | 10/10 | 24.8 (10) | 87 | 10/10 |
| 8-7 | 29.3 (10) | 10/10 | 29.1 (10) | 99 | 10/10 | 29.2 (10) | 100 | 10/10 | 28.2 (10) | 96 | 10/10 | 26.4 (10) | 90 | 10/10 | 25.1 (10) | 86 | 10/10 |
| 9-7 | 29.8 (10) | 10/10 | 29.3 (10) | 98 | 10/10 | 29.5 (10) | 99 | 10/10 | 27.9 (10) | 94 | 10/10 | 26.3 (10) | 88 | 10/10 | 24.8 (10) | 83 | 10/10 |
| 10-7 | 31.0 (10) | 10/10 | 30.1 (10) | 97 | 10/10 | 30.8 (10) | 99 | 10/10 | 29.9 (9) | 96 | 9/10 | 27.0 (10) | 87 | 10/10 | 25.3 (10) | 82 | 10/10 |
| 11-7 | 31.4 (10) | 10/10 | 30.5 (10) | 97 | 10/10 | 31.7 (10) | 101 | 10/10 | 30.4 (9) | 97 | 9/10 | 27.0 (10) | 86 | 10/10 | 25.3 (10) | 81 | 10/10 |
| 12-7 | 32.7 (10) | 10/10 | 31.5 (10) | 96 | 10/10 | 32.2 (10) | 98 | 10/10 | 31.1 (9) | 95 | 9/10 | 27.3 (10) | 83 | 10/10 | 25.6 (10) | 78 | 10/10 |
| 13-7 | 33.5 (10) | 10/10 | 32.1 (10) | 96 | 10/10 | 33.1 (10) | 99 | 10/10 | 31.4 (9) | 94 | 9/10 | 27.8 (10) | 83 | 10/10 | 25.6 (10) | 76 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.Wt.: g

TABLE 21 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES IN FEMALE MOUSE (THIRTEEN-WEEK STUDY)

| Week-Day on Study | Control | | 500 ppm | | | 1000 ppm | | | 2000 ppm | | | 4000 ppm | | | 8000 ppm | | |
|----------------------|-----------|---------------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|-----------|-----------------------|-------------------|
| | Au.Wt. | No. of Surviv. <10> | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. | Au.Wt. | % of cont. <10> | No. of Surviv. |
| 0-0 | 18.1 (10) | 10/10 | 18.2 (10) | 101 | 10/10 | 18.2 (10) | 101 | 10/10 | 18.2 (10) | 101 | 10/10 | 18.1 (10) | 100 | 10/10 | 18.2 (10) | 101 | 10/10 |
| 1-7 | 18.4 (10) | 10/10 | 18.2 (10) | 99 | 10/10 | 18.4 (10) | 100 | 10/10 | 18.3 (10) | 99 | 10/10 | 18.3 (10) | 99 | 10/10 | 16.6 (10) | 90 | 10/10 |
| 2-7 | 19.1 (10) | 10/10 | 19.0 (10) | 99 | 10/10 | 19.2 (10) | 101 | 10/10 | 19.0 (10) | 99 | 10/10 | 19.0 (10) | 99 | 10/10 | 17.5 (10) | 92 | 10/10 |
| 3-7 | 19.9 (10) | 10/10 | 19.5 (10) | 98 | 10/10 | 19.8 (10) | 99 | 10/10 | 19.6 (10) | 98 | 10/10 | 19.3 (10) | 97 | 10/10 | 17.9 (10) | 90 | 10/10 |
| 4-7 | 20.1 (10) | 10/10 | 20.2 (10) | 100 | 10/10 | 20.4 (10) | 101 | 10/10 | 20.2 (10) | 100 | 10/10 | 19.7 (10) | 98 | 10/10 | 18.4 (10) | 92 | 10/10 |
| 5-7 | 20.6 (10) | 10/10 | 20.9 (10) | 101 | 10/10 | 20.9 (10) | 101 | 10/10 | 20.7 (10) | 100 | 10/10 | 20.6 (10) | 100 | 10/10 | 19.2 (10) | 93 | 10/10 |
| 6-7 | 21.5 (10) | 10/10 | 21.6 (10) | 100 | 10/10 | 21.8 (10) | 101 | 10/10 | 21.5 (10) | 100 | 10/10 | 20.9 (10) | 97 | 10/10 | 19.8 (10) | 92 | 10/10 |
| 7-7 | 22.7 (10) | 10/10 | 22.3 (10) | 98 | 10/10 | 22.6 (10) | 100 | 10/10 | 22.2 (10) | 98 | 10/10 | 21.2 (10) | 93 | 10/10 | 20.3 (10) | 89 | 10/10 |
| 8-7 | 22.2 (10) | 10/10 | 21.8 (10) | 98 | 10/10 | 22.1 (10) | 100 | 10/10 | 21.8 (10) | 98 | 10/10 | 21.3 (10) | 96 | 10/10 | 20.6 (10) | 93 | 10/10 |
| 9-7 | 22.0 (10) | 10/10 | 22.2 (10) | 101 | 10/10 | 22.6 (10) | 103 | 10/10 | 21.9 (10) | 100 | 10/10 | 21.6 (10) | 98 | 10/10 | 20.5 (10) | 93 | 10/10 |
| 10-7 | 23.3 (10) | 10/10 | 22.7 (10) | 97 | 10/10 | 23.0 (10) | 99 | 10/10 | 22.5 (10) | 97 | 10/10 | 21.9 (10) | 94 | 10/10 | 21.2 (10) | 91 | 10/10 |
| 11-7 | 23.5 (10) | 10/10 | 23.6 (10) | 100 | 10/10 | 23.4 (10) | 100 | 10/10 | 23.4 (10) | 100 | 10/10 | 22.8 (10) | 97 | 10/10 | 21.1 (10) | 90 | 10/10 |
| 12-7 | 23.4 (10) | 10/10 | 23.1 (10) | 99 | 10/10 | 23.4 (10) | 100 | 10/10 | 22.9 (10) | 98 | 10/10 | 22.4 (10) | 96 | 10/10 | 21.5 (10) | 92 | 10/10 |
| 13-7 | 23.3 (10) | 10/10 | 23.5 (10) | 101 | 10/10 | 23.5 (10) | 101 | 10/10 | 23.3 (10) | 100 | 10/10 | 22.2 (10) | 95 | 10/10 | 21.8 (10) | 94 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.Wt.: g

TABLE 22 WATER CONSUMPTION IN MALE MOUSE (THIRTEEN-WEEK STUDY)

| Week-Day on Study | Control | | | 500 ppm | | | 1000 ppm | | | 2000 ppm | | | 4000 ppm | | | 8000 ppm | | |
|----------------------|----------|---------------------------|--|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | Au.WC. | No. of Surviv. <10> | | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. |
| 1-7 | 4.1 (10) | 10/10 | | 4.2 (10) | 102 | 10/10 | 4.0 (10) | 98 | 10/10 | 3.3 (10) | 80 | 10/10 | 2.5 (10) | 61 | 10/10 | 1.9 (10) | 46 | 10/10 |
| 2-7 | 4.3 (10) | 10/10 | | 4.3 (10) | 100 | 10/10 | 4.1 (10) | 95 | 10/10 | 2.9 (10) | 67 | 10/10 | 2.2 (10) | 51 | 10/10 | 1.6 (10) | 37 | 10/10 |
| 3-7 | 4.0 (10) | 10/10 | | 4.0 (10) | 100 | 10/10 | 3.8 (10) | 95 | 10/10 | 2.9 (10) | 73 | 10/10 | 2.3 (10) | 58 | 10/10 | 1.6 (10) | 40 | 10/10 |
| 4-7 | 3.9 (10) | 10/10 | | 3.7 (9) | 95 | 10/10 | 3.7 (10) | 95 | 10/10 | 3.0 (10) | 77 | 10/10 | 2.2 (10) | 56 | 10/10 | 1.6 (10) | 41 | 10/10 |
| 5-7 | 4.0 (10) | 10/10 | | 3.7 (10) | 93 | 10/10 | 3.8 (10) | 95 | 10/10 | 2.9 (10) | 73 | 10/10 | 2.3 (10) | 58 | 10/10 | 1.6 (10) | 40 | 10/10 |
| 6-7 | 3.8 (10) | 10/10 | | 3.7 (10) | 97 | 10/10 | 3.4 (10) | 89 | 10/10 | 2.7 (10) | 71 | 10/10 | 2.0 (10) | 53 | 10/10 | 1.5 (10) | 39 | 10/10 |
| 7-7 | 3.8 (10) | 10/10 | | 3.6 (10) | 95 | 10/10 | 3.5 (10) | 92 | 10/10 | 2.6 (10) | 68 | 10/10 | 2.0 (10) | 53 | 10/10 | 1.6 (10) | 42 | 10/10 |
| 8-7 | 3.8 (10) | 10/10 | | 3.5 (10) | 92 | 10/10 | 3.4 (9) | 89 | 10/10 | 2.8 (10) | 74 | 10/10 | 2.0 (10) | 53 | 10/10 | 1.6 (10) | 42 | 10/10 |
| 9-7 | 3.8 (10) | 10/10 | | 3.3 (8) | 87 | 10/10 | 3.5 (9) | 92 | 10/10 | 2.6 (10) | 68 | 10/10 | 1.9 (10) | 50 | 10/10 | 1.4 (10) | 37 | 10/10 |
| 10-7 | 3.8 (10) | 10/10 | | 3.7 (10) | 97 | 10/10 | 3.6 (10) | 95 | 10/10 | 2.5 (9) | 66 | 9/10 | 1.8 (10) | 47 | 10/10 | 1.4 (10) | 37 | 10/10 |
| 11-7 | 3.5 (10) | 10/10 | | 3.5 (10) | 100 | 10/10 | 3.5 (10) | 100 | 10/10 | 2.5 (9) | 71 | 9/10 | 1.8 (10) | 51 | 10/10 | 1.4 (10) | 40 | 10/10 |
| 12-7 | 3.5 (10) | 10/10 | | 3.6 (10) | 103 | 10/10 | 3.1 (9) | 89 | 10/10 | 2.6 (9) | 74 | 9/10 | 1.8 (10) | 51 | 10/10 | 1.5 (10) | 43 | 10/10 |
| 13-7 | 3.4 (10) | 10/10 | | 3.6 (10) | 106 | 10/10 | 3.2 (9) | 94 | 10/10 | 2.6 (9) | 76 | 9/10 | 2.1 (10) | 62 | 10/10 | 1.5 (10) | 44 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.WC.: g

TABLE 23 WATER CONSUMPTION IN FEMALE MOUSE (THIRTEEN-WEEK STUDY)

| Week-Day on Study | Control | | | 500 ppm | | | 1000 ppm | | | 2000 ppm | | | 4000 ppm | | | 8000 ppm | | |
|----------------------|----------|---------------------------|--|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | Au.WC. | No. of Surviv. <10> | | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. | Au.WC. | % of cont. <10> | No. of Surviv. |
| 1-7 | 4.0 (10) | 10/10 | | 3.7 (10) | 93 | 10/10 | 3.4 (10) | 85 | 10/10 | 3.0 (10) | 75 | 10/10 | 2.5 (10) | 63 | 10/10 | 1.8 (10) | 45 | 10/10 |
| 2-7 | 4.1 (10) | 10/10 | | 4.4 (10) | 107 | 10/10 | 3.5 (10) | 85 | 10/10 | 3.0 (10) | 73 | 10/10 | 2.4 (10) | 59 | 10/10 | 1.7 (10) | 41 | 10/10 |
| 3-7 | 4.1 (10) | 10/10 | | 4.2 (10) | 102 | 10/10 | 3.6 (10) | 88 | 10/10 | 2.7 (10) | 66 | 10/10 | 2.1 (10) | 51 | 10/10 | 1.4 (10) | 34 | 10/10 |
| 4-7 | 4.5 (9) | 10/10 | | 4.4 (9) | 98 | 10/10 | 3.9 (10) | 87 | 10/10 | 2.9 (10) | 64 | 10/10 | 2.1 (10) | 47 | 10/10 | 1.4 (10) | 31 | 10/10 |
| 5-7 | 4.4 (9) | 10/10 | | 4.7 (9) | 107 | 10/10 | 3.7 (10) | 84 | 10/10 | 3.0 (10) | 68 | 10/10 | 2.3 (10) | 52 | 10/10 | 1.7 (10) | 39 | 10/10 |
| 6-7 | 4.4 (10) | 10/10 | | 3.9 (8) | 89 | 10/10 | 3.5 (10) | 80 | 10/10 | 2.8 (10) | 64 | 10/10 | 2.3 (10) | 52 | 10/10 | 1.6 (10) | 36 | 10/10 |
| 7-7 | 4.7 (10) | 10/10 | | 4.3 (10) | 91 | 10/10 | 3.9 (10) | 83 | 10/10 | 2.9 (10) | 62 | 10/10 | 2.6 (10) | 55 | 10/10 | 1.6 (10) | 34 | 10/10 |
| 8-7 | 4.3 (9) | 10/10 | | 3.9 (10) | 91 | 10/10 | 3.9 (10) | 91 | 10/10 | 2.7 (10) | 63 | 10/10 | 2.4 (10) | 56 | 10/10 | 1.6 (10) | 37 | 10/10 |
| 9-7 | 4.2 (8) | 10/10 | | 4.3 (9) | 102 | 10/10 | 3.7 (10) | 88 | 10/10 | 2.7 (10) | 64 | 10/10 | 2.4 (10) | 57 | 10/10 | 1.7 (10) | 40 | 10/10 |
| 10-7 | 4.7 (9) | 10/10 | | 4.0 (9) | 85 | 10/10 | 3.8 (10) | 81 | 10/10 | 2.9 (10) | 62 | 10/10 | 2.5 (10) | 53 | 10/10 | 1.8 (10) | 38 | 10/10 |
| 11-7 | 4.4 (9) | 10/10 | | 4.2 (9) | 95 | 10/10 | 3.6 (10) | 82 | 10/10 | 3.0 (10) | 68 | 10/10 | 2.8 (10) | 64 | 10/10 | 1.8 (10) | 41 | 10/10 |
| 12-7 | 4.1 (9) | 10/10 | | 4.3 (9) | 105 | 10/10 | 3.6 (10) | 88 | 10/10 | 2.9 (10) | 71 | 10/10 | 2.5 (10) | 61 | 10/10 | 1.7 (10) | 41 | 10/10 |
| 13-7 | 4.1 (8) | 10/10 | | 3.9 (8) | 95 | 10/10 | 3.6 (10) | 88 | 10/10 | 2.8 (10) | 68 | 10/10 | 2.5 (10) | 61 | 10/10 | 1.7 (10) | 41 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.WC.: g

TABLE 24 FOOD CONSUMPTION IN MALE MOUSE (THIRTEEN-WEEK STUDY)

| Week-Day on Study | Control | | 500 ppm | | | 1000 ppm | | | 2000 ppm | | | 4000 ppm | | | 8000 ppm | | |
|----------------------|----------|---------------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | Au.F.C. | No. of Surviv. <10> | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. |
| 1-7 | 3.5 (10) | 10/10 | 3.4 (10) | 97 | 10/10 | 3.5 (10) | 100 | 10/10 | 3.4 (10) | 97 | 10/10 | 3.1 (10) | 89 | 10/10 | 2.8 (10) | 80 | 10/10 |
| 2-7 | 3.6 (10) | 10/10 | 3.7 (10) | 103 | 10/10 | 3.7 (10) | 103 | 10/10 | 3.5 (10) | 97 | 10/10 | 3.2 (10) | 89 | 10/10 | 3.3 (10) | 92 | 10/10 |
| 3-7 | 3.6 (10) | 10/10 | 3.6 (10) | 100 | 10/10 | 3.8 (10) | 106 | 10/10 | 3.6 (10) | 100 | 10/10 | 3.3 (10) | 92 | 10/10 | 3.3 (10) | 92 | 10/10 |
| 4-7 | 3.7 (10) | 10/10 | 3.8 (10) | 103 | 10/10 | 3.9 (10) | 105 | 10/10 | 3.6 (10) | 97 | 10/10 | 3.4 (10) | 92 | 10/10 | 3.5 (10) | 95 | 10/10 |
| 5-7 | 3.6 (10) | 10/10 | 3.6 (10) | 100 | 10/10 | 3.7 (10) | 103 | 10/10 | 3.6 (10) | 100 | 10/10 | 3.4 (10) | 94 | 10/10 | 3.3 (10) | 92 | 10/10 |
| 6-7 | 3.9 (10) | 10/10 | 3.9 (10) | 100 | 10/10 | 3.9 (10) | 100 | 10/10 | 3.6 (10) | 92 | 10/10 | 3.3 (10) | 85 | 10/10 | 3.4 (10) | 87 | 10/10 |
| 7-7 | 3.8 (10) | 10/10 | 3.8 (10) | 100 | 10/10 | 3.8 (10) | 100 | 10/10 | 3.6 (10) | 95 | 10/10 | 3.5 (10) | 92 | 10/10 | 3.5 (10) | 92 | 10/10 |
| 8-7 | 3.9 (10) | 10/10 | 3.8 (10) | 97 | 10/10 | 3.9 (10) | 100 | 10/10 | 3.7 (10) | 95 | 10/10 | 3.4 (10) | 87 | 10/10 | 3.5 (10) | 90 | 10/10 |
| 9-7 | 3.6 (10) | 10/10 | 3.4 (10) | 94 | 10/10 | 3.6 (10) | 100 | 10/10 | 3.2 (10) | 89 | 10/10 | 3.1 (10) | 86 | 10/10 | 3.2 (10) | 89 | 10/10 |
| 10-7 | 4.0 (10) | 10/10 | 3.9 (10) | 98 | 10/10 | 3.9 (10) | 98 | 10/10 | 3.8 (9) | 95 | 9/10 | 3.4 (10) | 85 | 10/10 | 3.5 (10) | 88 | 10/10 |
| 11-7 | 4.0 (10) | 10/10 | 3.8 (10) | 95 | 10/10 | 4.1 (10) | 103 | 10/10 | 3.7 (9) | 93 | 9/10 | 3.4 (10) | 85 | 10/10 | 3.5 (10) | 88 | 10/10 |
| 12-7 | 4.0 (10) | 10/10 | 3.9 (10) | 98 | 10/10 | 4.0 (10) | 100 | 10/10 | 3.8 (9) | 95 | 9/10 | 3.3 (10) | 83 | 10/10 | 3.4 (10) | 85 | 10/10 |
| 13-7 | 4.0 (10) | 10/10 | 3.9 (10) | 98 | 10/10 | 4.0 (10) | 100 | 10/10 | 3.8 (9) | 95 | 9/10 | 3.4 (10) | 85 | 10/10 | 3.4 (10) | 85 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.F.C.: g

TABLE 25 FOOD CONSUMPTION IN FEMALE MOUSE (THIRTEEN-WEEK STUDY)

| Week-Day on Study | Control | | 500 ppm | | | 1000 ppm | | | 2000 ppm | | | 4000 ppm | | | 8000 ppm | | |
|----------------------|----------|---------------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|-----------------------|-------------------|
| | Au.F.C. | No. of Surviv. <10> | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. | Au.F.C. | % of cont. <10> | No. of Surviv. |
| 1-7 | 3.1 (10) | 10/10 | 2.9 (10) | 94 | 10/10 | 2.9 (10) | 94 | 10/10 | 2.9 (10) | 94 | 10/10 | 2.8 (10) | 90 | 10/10 | 2.3 (10) | 74 | 10/10 |
| 2-7 | 3.2 (10) | 10/10 | 3.1 (10) | 97 | 10/10 | 3.2 (10) | 100 | 10/10 | 3.1 (10) | 97 | 10/10 | 3.0 (10) | 94 | 10/10 | 2.9 (10) | 91 | 10/10 |
| 3-7 | 3.2 (10) | 10/10 | 3.1 (10) | 97 | 10/10 | 3.2 (10) | 100 | 10/10 | 3.2 (10) | 100 | 10/10 | 3.0 (10) | 94 | 10/10 | 2.9 (10) | 91 | 10/10 |
| 4-7 | 3.3 (10) | 10/10 | 3.3 (10) | 100 | 10/10 | 3.3 (10) | 100 | 10/10 | 3.3 (10) | 100 | 10/10 | 3.1 (10) | 94 | 10/10 | 3.0 (10) | 91 | 10/10 |
| 5-7 | 3.4 (10) | 10/10 | 3.3 (10) | 97 | 10/10 | 3.3 (10) | 97 | 10/10 | 3.3 (10) | 97 | 10/10 | 3.1 (10) | 91 | 10/10 | 3.1 (10) | 91 | 10/10 |
| 6-7 | 3.5 (10) | 10/10 | 3.4 (10) | 97 | 10/10 | 3.4 (10) | 97 | 10/10 | 3.4 (10) | 97 | 10/10 | 3.2 (10) | 91 | 10/10 | 3.1 (10) | 89 | 10/10 |
| 7-7 | 3.6 (10) | 10/10 | 3.5 (10) | 97 | 10/10 | 3.5 (10) | 97 | 10/10 | 3.4 (10) | 94 | 10/10 | 3.2 (10) | 89 | 10/10 | 3.2 (10) | 89 | 10/10 |
| 8-7 | 3.6 (10) | 10/10 | 3.6 (10) | 100 | 10/10 | 3.6 (10) | 100 | 10/10 | 3.5 (10) | 97 | 10/10 | 3.3 (10) | 92 | 10/10 | 3.3 (10) | 92 | 10/10 |
| 9-7 | 3.3 (10) | 10/10 | 3.4 (10) | 103 | 10/10 | 3.4 (10) | 103 | 10/10 | 3.2 (10) | 97 | 10/10 | 3.2 (10) | 97 | 10/10 | 3.0 (10) | 91 | 10/10 |
| 10-7 | 3.8 (10) | 10/10 | 3.7 (10) | 97 | 10/10 | 3.6 (10) | 95 | 10/10 | 3.5 (10) | 92 | 10/10 | 3.4 (10) | 89 | 10/10 | 3.3 (10) | 87 | 10/10 |
| 11-7 | 3.8 (10) | 10/10 | 3.7 (10) | 97 | 10/10 | 3.7 (10) | 97 | 10/10 | 3.6 (10) | 95 | 10/10 | 3.6 (10) | 95 | 10/10 | 3.3 (10) | 87 | 10/10 |
| 12-7 | 3.6 (10) | 10/10 | 3.4 (10) | 94 | 10/10 | 3.6 (10) | 100 | 10/10 | 3.4 (10) | 94 | 10/10 | 3.3 (10) | 92 | 10/10 | 3.2 (10) | 89 | 10/10 |
| 13-7 | 3.7 (10) | 10/10 | 3.6 (10) | 97 | 10/10 | 3.7 (10) | 100 | 10/10 | 3.6 (10) | 97 | 10/10 | 3.5 (10) | 95 | 10/10 | 3.4 (10) | 92 | 10/10 |

< >:No. of effective animals, ():No. of measured animals Au.F.C.: g