

アセト酢酸メチルのラットを用いた経口投与
による2週間毒性試験（混水試験）報告書

試験番号： 0419

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TABLE 1 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE RATS
IN THE 2-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

| Week-Day on Study | Control | | 2500ppm | | | 5000ppm | | | 10000ppm | | | 20000ppm | | | 40000ppm | | |
|----------------------|----------------|-------------------|-----------|---------------|-------------------|-----------|---------------|-------------------|-----------|---------------|-------------------|-----------|---------------|-------------------|-----------|---------------|-------------------|
| | Av. Wt. <5> | No. of Surviv. | Av. Wt. | % of cont. | No. of Surviv. | Av. Wt. | % of cont. | No. of Surviv. | Av. Wt. | % of cont. | No. of Surviv. | Av. Wt. | % of cont. | No. of Surviv. | Av. Wt. | % of cont. | No. of Surviv. |
| 0-0 | 132 (5) | 5 / 5 | 131 (5) | 99 | 5 / 5 | 131 (5) | 99 | 5 / 5 | 131 (5) | 99 | 5 / 5 | 131 (5) | 99 | 5 / 5 | 132 (5) | 100 | 5 / 5 |
| 1-4 | 152 (5) | 5 / 5 | 148 (5) | 97 | 5 / 5 | 146 (5) | 96 | 5 / 5 | 146 (5) | 96 | 5 / 5 | 136 (5) | 89 | 5 / 5 | 110 (5) | 72 | 5 / 5 |
| 1-7 | 166 (5) | 5 / 5 | 160 (5) | 96 | 5 / 5 | 159 (5) | 96 | 5 / 5 | 159 (5) | 96 | 5 / 5 | 153 (5) | 92 | 5 / 5 | 120 (5) | 72 | 5 / 5 |
| 2-4 | 186 (5) | 5 / 5 | 178 (5) | 96 | 5 / 5 | 178 (5) | 96 | 5 / 5 | 175 (5) | 94 | 5 / 5 | 169 (5) | 91 | 5 / 5 | 143 (5) | 77 | 5 / 5 |
| 2-7 | 196 (5) | 5 / 5 | 189 (5) | 96 | 5 / 5 | 188 (5) | 96 | 5 / 5 | 186 (5) | 95 | 5 / 5 | 181 (5) | 92 | 5 / 5 | 157 (5) | 80 | 5 / 5 |

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

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE RATS
IN THE 2-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

| Week-Day on Study | Control | | 2500ppm | | | 5000ppm | | | 10000ppm | | | 20000ppm | | | 40000ppm | | |
|----------------------|----------------|-------------------|-----------|---------------|-------------------|-----------|---------------|-------------------|-----------|---------------|-------------------|-----------|---------------|-------------------|-----------|---------------|-------------------|
| | Av. Wt. <5> | No. of Surviv. | Av. Wt. | % of cont. | No. of Surviv. | Av. Wt. | % of cont. | No. of Surviv. | Av. Wt. | % of cont. | No. of Surviv. | Av. Wt. | % of cont. | No. of Surviv. | Av. Wt. | % of cont. | No. of Surviv. |
| 0-0 | 99 (5) | 5 / 5 | 99 (5) | 100 | 5 / 5 | 99 (5) | 100 | 5 / 5 | 99 (5) | 100 | 5 / 5 | 99 (5) | 100 | 5 / 5 | 99 (5) | 100 | 5 / 5 |
| 1-4 | 109 (5) | 5 / 5 | 108 (5) | 99 | 5 / 5 | 107 (5) | 98 | 5 / 5 | 107 (5) | 98 | 5 / 5 | 103 (5) | 94 | 5 / 5 | 83 (5) | 76 | 5 / 5 |
| 1-7 | 116 (5) | 5 / 5 | 113 (5) | 97 | 5 / 5 | 113 (5) | 97 | 5 / 5 | 112 (5) | 97 | 5 / 5 | 109 (5) | 94 | 5 / 5 | 95 (5) | 82 | 5 / 5 |
| 2-4 | 123 (5) | 5 / 5 | 122 (5) | 99 | 5 / 5 | 121 (5) | 98 | 5 / 5 | 122 (5) | 99 | 5 / 5 | 117 (5) | 95 | 5 / 5 | 109 (5) | 89 | 5 / 5 |
| 2-7 | 128 (5) | 5 / 5 | 127 (5) | 99 | 5 / 5 | 126 (5) | 98 | 5 / 5 | 127 (5) | 99 | 5 / 5 | 121 (5) | 95 | 5 / 5 | 117 (5) | 91 | 5 / 5 |

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

TABLE 3 WATER CONSUMPTION CHANGES OF MALE RATS IN THE 2-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

| Week-Day on Study | Control | | | 2500ppm | | | 5000ppm | | | 10000ppm | | | 20000ppm | | | 40000ppm | | |
|-------------------|----------------|-------------------------|--|----------------|-------------------|-------------------------|----------------|-------------------|-------------------------|----------------|-------------------|-------------------------|----------------|-------------------|-------------------------|----------------|-------------------|-------------------------|
| | Av. Wc. <5> | No. of Surviv. 5 / 5 | | Av. Wc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Wc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Wc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Wc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Wc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 |
| 1-4 | 18.9 (5) | 5 / 5 | | 15.6 (5) | 83 | 5 / 5 | 15.1 (5) | 80 | 5 / 5 | 13.7 (5) | 72 | 5 / 5 | 10.2 (5) | 54 | 5 / 5 | 3.1 (5) | 16 | 5 / 5 |
| 1-7 | 19.4 (5) | 5 / 5 | | 15.3 (5) | 79 | 5 / 5 | 15.5 (5) | 80 | 5 / 5 | 14.2 (5) | 73 | 5 / 5 | 13.6 (5) | 70 | 5 / 5 | 9.3 (5) | 48 | 5 / 5 |
| 2-4 | 20.1 (5) | 5 / 5 | | 15.4 (5) | 77 | 5 / 5 | 15.3 (5) | 76 | 5 / 5 | 14.7 (5) | 73 | 5 / 5 | 13.0 (5) | 65 | 5 / 5 | 12.6 (5) | 63 | 5 / 5 |
| 2-7 | 19.8 (5) | 5 / 5 | | 15.1 (5) | 76 | 5 / 5 | 14.4 (5) | 73 | 5 / 5 | 14.2 (5) | 72 | 5 / 5 | 13.2 (5) | 67 | 5 / 5 | 12.6 (5) | 64 | 5 / 5 |

< > : No.of effective animals, () : No.of measured animals Av.Wc.:g

TABLE 4 WATER CONSUMPTION CHANGES OF FEMALE RATS IN THE 2-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

| Week-Day on Study | Control | | | 2500ppm | | | 5000ppm | | | 10000ppm | | | 20000ppm | | | 40000ppm | | |
|-------------------|----------------|-------------------------|--|----------------|-------------------|-------------------------|----------------|-------------------|-------------------------|----------------|-------------------|-------------------------|----------------|-------------------|-------------------------|----------------|-------------------|-------------------------|
| | Av. Wc. <5> | No. of Surviv. 5 / 5 | | Av. Wc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Wc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Wc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Wc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Wc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 |
| 1-4 | 14.9 (5) | 5 / 5 | | 12.4 (5) | 83 | 5 / 5 | 11.5 (5) | 77 | 5 / 5 | 10.6 (5) | 71 | 5 / 5 | 9.4 (5) | 63 | 5 / 5 | 3.6 (5) | 24 | 5 / 5 |
| 1-7 | 15.9 (5) | 5 / 5 | | 11.6 (5) | 73 | 5 / 5 | 11.2 (5) | 70 | 5 / 5 | 10.5 (5) | 66 | 5 / 5 | 10.4 (5) | 65 | 5 / 5 | 10.1 (5) | 64 | 5 / 5 |
| 2-4 | 16.9 (5) | 5 / 5 | | 12.3 (5) | 73 | 5 / 5 | 10.6 (5) | 63 | 5 / 5 | 11.1 (5) | 66 | 5 / 5 | 10.3 (5) | 61 | 5 / 5 | 11.0 (5) | 65 | 5 / 5 |
| 2-7 | 16.7 (5) | 5 / 5 | | 12.2 (5) | 73 | 5 / 5 | 10.7 (5) | 64 | 5 / 5 | 10.2 (5) | 61 | 5 / 5 | 9.9 (5) | 59 | 5 / 5 | 9.7 (5) | 58 | 5 / 5 |

< > : No.of effective animals, () : No.of measured animals Av.Wc.:g

TABLE 5 FOOD CONSUMPTION CHANGES OF MALE RATS IN THE 2-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

| Week-Day on Study | Control | | 2500ppm | | | 5000ppm | | | 10000ppm | | | 20000ppm | | | 40000ppm | | |
|-------------------|----------------|-------------------------|------------|-------------------|-------------------------|------------|-------------------|-------------------------|----------------|-------------------|-------------------------|----------------|-------------------|-------------------------|------------|------------|----------------|
| | Av. Fc. <5> | No. of Surviv. 5 / 5 | Av. Fc. | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Fc. | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Fc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Fc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Fc. | % of cont. | No. of Surviv. |
| 1-4 | 14.7 (5) | 5 / 5 | 13.9 (5) | 95 | 5 / 5 | 13.2 (5) | 90 | 5 / 5 | 12.7 (5) | 86 | 5 / 5 | 11.5 (5) | 78 | 5 / 5 | 7.1 (5) | 48 | 5 / 5 |
| 1-7 | 15.9 (5) | 5 / 5 | 15.0 (5) | 94 | 5 / 5 | 14.6 (5) | 92 | 5 / 5 | 14.2 (5) | 89 | 5 / 5 | 13.3 (5) | 84 | 5 / 5 | 7.9 (5) | 50 | 5 / 5 |
| 2-4 | 16.2 (5) | 5 / 5 | 14.8 (5) | 91 | 5 / 5 | 14.9 (5) | 92 | 5 / 5 | 14.4 (5) | 89 | 5 / 5 | 13.6 (5) | 84 | 5 / 5 | 12.5 (5) | 77 | 5 / 5 |
| 2-7 | 16.6 (5) | 5 / 5 | 15.2 (5) | 92 | 5 / 5 | 14.8 (5) | 89 | 5 / 5 | 14.6 (5) | 88 | 5 / 5 | 14.0 (5) | 84 | 5 / 5 | 13.6 (5) | 82 | 5 / 5 |

< > : No.of effective animals, () : No.of measured animals Av.Fc.:g

TABLE 6 FOOD CONSUMPTION CHANGES OF FEMALE RATS IN THE 2-WEEK DRINKING WATER STUDY OF METHYL ACETOACETATE

| Week-Day on Study | Control | | 2500ppm | | | 5000ppm | | | 10000ppm | | | 20000ppm | | | 40000ppm | | |
|-------------------|----------------|-------------------------|------------|-------------------|-------------------------|------------|-------------------|-------------------------|----------------|-------------------|-------------------------|----------------|-------------------|-------------------------|------------|------------|----------------|
| | Av. Fc. <5> | No. of Surviv. 5 / 5 | Av. Fc. | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Fc. | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Fc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Fc. <5> | % of cont. <5> | No. of Surviv. 5 / 5 | Av. Fc. | % of cont. | No. of Surviv. |
| 1-4 | 10.9 (5) | 5 / 5 | 10.7 (5) | 98 | 5 / 5 | 10.0 (5) | 92 | 5 / 5 | 9.9 (5) | 91 | 5 / 5 | 9.1 (5) | 83 | 5 / 5 | 5.2 (5) | 48 | 5 / 5 |
| 1-7 | 11.5 (5) | 5 / 5 | 10.9 (5) | 95 | 5 / 5 | 10.5 (5) | 91 | 5 / 5 | 10.3 (5) | 90 | 5 / 5 | 10.0 (5) | 87 | 5 / 5 | 7.9 (5) | 69 | 5 / 5 |
| 2-4 | 11.1 (5) | 5 / 5 | 10.9 (5) | 98 | 5 / 5 | 10.0 (5) | 90 | 5 / 5 | 10.5 (5) | 95 | 5 / 5 | 10.1 (5) | 91 | 5 / 5 | 10.1 (5) | 91 | 5 / 5 |
| 2-7 | 11.5 (5) | 5 / 5 | 11.3 (5) | 98 | 5 / 5 | 10.4 (5) | 90 | 5 / 5 | 10.2 (5) | 89 | 5 / 5 | 9.8 (5) | 85 | 5 / 5 | 10.1 (5) | 88 | 5 / 5 |

< > : No.of effective animals, () : No.of measured animals Av.Fc.:g