

キノリンのラットを用いた経口投与による
13 週間毒性試験(混水試験)報告書

試験番号：0289

TABLES

TABLES

- TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS IN THE 13-WEEK DRINKING STUDY OF QUINOLINE
- TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF QUINOLINE
- TABLE 3 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF QUINOLINE
- TABLE 4 WATER CONSUMPTION CHANGES OF MALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF QUINOLINE
- TABLE 5 WATER CONSUMPTION CHANGES OF FEMALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF QUINOLINE
- TABLE 6 FOOD CONSUMPTION CHANGES OF MALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF QUINOLINE
- TABLE 7 FOOD CONSUMPTION CHANGES OF FEMALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF QUINOLINE

TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS
IN THE 2-WEEK DRINKING STUDY OF QUINOLINE

13-week study	
<Method of Administration>	Drinking Water
<Number of Groups>	Male 6, Female 6
<Size of Groups>	10 males and 10 females of each group
<Animals>	Strain and Species F344/DuCrj (Fischer) rat
	Animal Source Charles River Japan, Inc.
	Duration Held Before Study 2 wk
	Age When Placed on Study 6 wk
	Age When Killed 19 wk
<Doses>	<Male> 0, 158, 237, 355, 533 or 800 ppm <Female> 0, 158, 237, 355, 533 or 800 ppm
<Duration of Dosing>	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 : $24 \pm 2^\circ\text{C}$ Humidity : $55 \pm 10\%$ Fluorescent light 12h/d 15~17 room air changes /h
<Type and Frequency of Observation>	Clinical Sign Observed 1 per d
	Body Weight Weighed 1 per wk for 13wk
	Food Consumption Weighed 1 per wk for 13wk
	Water Consumption Weighed 1 per wk for 13wk

TABLE 1 EXPERIMENTAL DESIGN AND MATERIALS AND METHODS
(Continued) IN THE 2-WEEK DRINKING STUDY OF QUINOLINE

2-week study

<Hematology>

Red blood cell (RBC), Hemoglobin, Hematocrit,
Mean Corpuscular Volume (MCV),
Mean Corpuscular hemoglobin (MCH),
Mean Corpuscular hemoglobin concentrate (MCHC),
Platelet, Reticulocyte, Prothrombin time (PT),
Activated partial thromboplastin time (APTT)
White blood cell (WBC), Differential WBC,

<Biochemistry>

Total protein, Albumin, A/G ratio,
Total bilirubin, Glucose, Total cholesterol, Triglyceride,
Phospholipid, Glutamic oxaloacetic transaminase (GOT),
Alkaline phosphatase (ALP),
Glutamic pyruvic transaminase (GPT),
Lactate dehydrogenase (LDH),
 γ -Glutamyl transpeptidase (G-GTP)
Creatine phosphokinase (CPK),
Urea nitrogen, Sodium,
Potassium, Chloride,
Calcium, Inorganic phosphorus.

<Urinalysis>

pH, Protein, Glucose, Ketone body, Bilirubin, Occult blood, Urobilinogen

<Necropsy>

Necropsy performed on all animals.

<Organ Weight>

Organ weight measurement performed on scheduled
sacrificed animals.

The following organs were weighed;
thymus, adrenal, testis, ovary, heart, lung,
kidney, spleen, liver, and brain.

<Histopathologic Examination>

Histopathologic examination performed on all animals

The following organs were examined;
skin, nasal cavity, nasopharynx, larynx, trachea, lung, bone marrow,
lymph node, thymus, spleen, heart, tongue, salivary gland, esophagus,
stomach, small intestine, large intestine, liver, gall bladder, pancreas,
kidney, urinary bladder, pituitary, thyroid, parathyroid, adrenal, testis,
epididymis, seminal vesicle, prostate, ovary, uterus, vagina,
mammary gland, brain, spinal cord, peripheral nerve,
eye, Harderian gland, muscle, bone, other organs/tissues with gross lesions.

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF QUINOLINE

Week on Study	Control			158ppm			237ppm			355ppm			533ppm			800ppm		
	Av.Wt. <10>	No. of Surviv.	No. of Surviv.	Av.Wt. <10>	% of cont.	No. of Surviv.	Av.Wt. <10>	% of cont.	No. of Surviv.	Av.Wt. <10>	% of cont.	No. of Surviv.	Av.Wt. <10>	% of cont.	No. of Surviv.	Av.Wt. <10>	% of cont.	No. of Surviv.
0	124 (10)	10/10	10/10	124 (10)	100	10/10	124 (10)	100	10/10	124 (10)	100	10/10	124 (10)	100	10/10	124 (10)	100	10/10
1	155 (10)	10/10	10/10	151 (10)	97	10/10	149 (10)	96	10/10	148 (10)	95	10/10	143 (10)	92	10/10	127 (10)	82	10/10
2	187 (10)	10/10	10/10	184 (10)	98	10/10	177 (10)	95	10/10	178 (10)	95	10/10	173 (10)	93	10/10	156 (10)	83	10/10
3	212 (10)	10/10	10/10	211 (10)	100	10/10	203 (10)	96	10/10	205 (10)	97	10/10	199 (10)	94	10/10	185 (10)	87	10/10
4	235 (10)	10/10	10/10	234 (10)	100	10/10	224 (10)	95	10/10	227 (10)	97	10/10	221 (10)	94	10/10	207 (10)	88	10/10
5	229 (10)	10/10	10/10	250 (10)	109	10/10	240 (10)	105	10/10	242 (10)	106	10/10	238 (10)	104	10/10	224 (10)	98	10/10
6	253 (10)	10/10	10/10	264 (10)	104	10/10	254 (10)	100	10/10	256 (10)	101	10/10	250 (10)	99	10/10	238 (10)	94	10/10
7	270 (10)	10/10	10/10	276 (10)	102	10/10	266 (10)	99	10/10	265 (10)	98	10/10	260 (10)	96	10/10	248 (10)	92	10/10
8	284 (10)	10/10	10/10	288 (10)	101	10/10	277 (10)	98	10/10	278 (10)	98	10/10	273 (10)	96	10/10	261 (10)	92	10/10
9	295 (10)	10/10	10/10	298 (10)	101	10/10	288 (10)	98	10/10	289 (10)	98	10/10	284 (10)	96	10/10	271 (10)	92	10/10
10	304 (10)	10/10	10/10	306 (10)	101	10/10	298 (10)	98	10/10	300 (10)	99	10/10	295 (10)	97	10/10	280 (10)	92	10/10
11	312 (10)	10/10	10/10	314 (10)	101	10/10	303 (10)	97	10/10	307 (10)	98	10/10	299 (10)	96	10/10	288 (10)	92	10/10
12	319 (10)	10/10	10/10	320 (10)	100	10/10	309 (10)	97	10/10	312 (10)	98	10/10	308 (10)	97	10/10	292 (10)	92	10/10
13	324 (10)	10/10	10/10	327 (10)	101	10/10	315 (10)	97	10/10	320 (10)	99	10/10	317 (10)	98	10/10	302 (10)	93	10/10

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

TABLE 3 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF QUINOLINE

Week on Study	Control		158ppm			237ppm			355ppm			533ppm			800ppm		
	Av.Wt. <10>	No. of Surviv. 10/10	Av.Wt. <10>	% of cont. <10>	No. of Surviv. 10/10	Av.Wt. <10>	% of cont. <10>	No. of Surviv. 10/10	Av.Wt. <10>	% of cont. <10>	No. of Surviv. 10/10	Av.Wt. <10>	% of cont. <10>	No. of Surviv. 10/10	Av.Wt. <10>	% of cont. <10>	No. of Surviv. 10/10
0	103 (10)	10/10	103 (10)	100	10/10	103 (10)	100	10/10	103 (10)	100	10/10	103 (10)	100	10/10	103 (10)	100	10/10
1	119 (10)	10/10	117 (10)	98	10/10	112 (10)	94	10/10	111 (10)	93	10/10	104 (10)	87	10/10	86 (10)	72	10/10
2	133 (10)	10/10	132 (10)	99	10/10	128 (10)	96	10/10	127 (10)	95	10/10	121 (10)	91	10/10	104 (10)	78	10/10
3	146 (10)	10/10	144 (10)	99	10/10	140 (10)	96	10/10	136 (10)	93	10/10	132 (10)	90	10/10	120 (10)	82	10/10
4	154 (10)	10/10	152 (10)	99	10/10	147 (10)	95	10/10	144 (10)	94	10/10	140 (10)	91	10/10	130 (10)	84	10/10
5	160 (10)	10/10	159 (10)	99	10/10	153 (10)	96	10/10	150 (10)	94	10/10	147 (10)	92	10/10	137 (10)	86	10/10
6	168 (10)	10/10	165 (10)	98	10/10	157 (10)	93	10/10	154 (10)	92	10/10	151 (10)	90	10/10	141 (10)	84	10/10
7	174 (10)	10/10	169 (10)	97	10/10	162 (10)	93	10/10	158 (10)	91	10/10	154 (10)	89	10/10	144 (10)	83	10/10
8	178 (10)	10/10	173 (10)	97	10/10	167 (10)	94	10/10	163 (10)	92	10/10	158 (10)	89	10/10	149 (10)	84	10/10
9	184 (10)	10/10	178 (10)	97	10/10	172 (10)	93	10/10	166 (10)	90	10/10	162 (10)	88	10/10	152 (10)	83	10/10
10	187 (10)	10/10	179 (10)	96	10/10	175 (10)	94	10/10	170 (10)	91	10/10	168 (10)	90	10/10	154 (10)	82	10/10
11	189 (10)	10/10	184 (10)	97	10/10	177 (10)	94	10/10	172 (10)	91	10/10	169 (10)	89	10/10	157 (10)	83	10/10
12	192 (10)	10/10	185 (10)	96	10/10	178 (10)	93	10/10	174 (10)	91	10/10	172 (10)	90	10/10	159 (10)	83	10/10
13	193 (10)	10/10	186 (10)	96	10/10	179 (10)	93	10/10	174 (10)	90	10/10	172 (10)	89	10/10	161 (10)	83	10/10

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

TABLE 4 WATER CONSUMPTION CHANGES OF MALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF QUINOLINE

Week on Study	Control			158ppm			237ppm			355ppm			533ppm			800ppm		
	Av.FC. <10>	No. of Surviv.	No. of Surviv.	Av.FC. <10>	% of cont. <10>	No. of Surviv.	Av.FC. <10>	% of cont. <10>	No. of Surviv.	Av.FC. <10>	% of cont. <10>	No. of Surviv.	Av.FC. <10>	% of cont. <10>	No. of Surviv.	Av.FC. <10>	% of cont. <10>	No. of Surviv.
1	17.2	(10)	10/10	14.7	(10)	85 10/10	13.5	(10)	78 10/10	12.1	(10)	70 10/10	10.5	(10)	61 10/10	7.5	(10)	44 10/10
2	18.0	(10)	10/10	16.0	(10)	89 10/10	14.3	(10)	79 10/10	12.8	(10)	71 10/10	12.2	(10)	68 10/10	10.7	(10)	59 10/10
3	18.8	(10)	10/10	16.8	(10)	89 10/10	14.5	(10)	77 10/10	13.1	(10)	70 10/10	12.7	(10)	68 10/10	11.5	(10)	61 10/10
4	19.6	(10)	10/10	17.0	(10)	86 10/10	15.2	(10)	78 10/10	13.4	(10)	68 10/10	13.0	(10)	66 10/10	11.8	(10)	60 10/10
5	10.8	(10)	10/10	17.0	(10)	157 10/10	15.6	(10)	144 10/10	13.4	(10)	124 10/10	13.0	(10)	120 10/10	11.8	(10)	109 10/10
6	20.2	(10)	10/10	16.1	(10)	80 10/10	14.4	(10)	71 10/10	13.0	(10)	64 10/10	12.3	(10)	61 10/10	11.5	(10)	57 10/10
7	19.8	(10)	10/10	15.9	(10)	80 10/10	14.6	(10)	74 10/10	12.7	(10)	64 10/10	12.3	(10)	62 10/10	11.4	(10)	57 10/10
8	19.4	(10)	10/10	16.2	(10)	84 10/10	14.4	(10)	74 10/10	13.3	(10)	69 10/10	12.8	(10)	66 10/10	12.1	(10)	62 10/10
9	19.3	(10)	10/10	15.9	(10)	82 10/10	14.6	(10)	75 10/10	14.1	(10)	73 10/10	12.7	(10)	65 10/10	11.6	(10)	60 10/10
10	19.3	(10)	10/10	18.7	(10)	97 10/10	15.2	(10)	78 10/10	13.6	(10)	70 10/10	13.1	(10)	68 10/10	12.0	(10)	62 10/10
11	18.8	(10)	10/10	16.2	(10)	86 10/10	14.6	(10)	77 10/10	13.6	(10)	72 10/10	13.2	(10)	70 10/10	12.3	(10)	65 10/10
12	18.7	(10)	10/10	16.2	(10)	86 10/10	14.8	(10)	79 10/10	13.1	(10)	70 10/10	13.0	(10)	69 10/10	11.7	(10)	63 10/10
13	18.5	(10)	10/10	16.4	(10)	89 10/10	14.3	(10)	78 10/10	13.6	(10)	74 10/10	13.0	(10)	71 10/10	12.1	(10)	65 10/10

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

TABLE 5 WATER CONSUMPTION CHANGES OF FEMALE RATS IN THE 13-WEEK DRINKING WATER STUDY OF QUINOLINE

Week on Study	Control			158ppm			237ppm			355ppm			533ppm			800ppm		
	Av.FC. <10>	No. of Surviv.	No. of	Av.FC. <10>	% of cont.	No. of Surviv.	Av.FC. <10>	% of cont.	No. of Surviv.	Av.FC. <10>	% of cont.	No. of Surviv.	Av.FC. <10>	% of cont.	No. of Surviv.	Av.FC. <10>	% of cont.	No. of Surviv.
1	13.7 (10)	10/10		12.8 (10)	93	10/10	10.4 (10)	76	10/10	11.3 (10)	83	10/10	7.7 (10)	56	10/10	4.3 (10)	31	10/10
2	15.8 (10)	10/10		12.7 (10)	80	10/10	11.5 (10)	73	10/10	11.8 (10)	75	10/10	9.3 (10)	59	10/10	7.7 (10)	49	10/10
3	15.4 (10)	10/10		12.7 (10)	82	10/10	11.3 (10)	73	10/10	11.4 (10)	74	10/10	9.2 (10)	59	10/10	8.0 (10)	52	10/10
4	15.0 (10)	10/10		11.9 (10)	80	10/10	10.4 (10)	70	10/10	10.2 (10)	68	10/10	8.9 (10)	59	10/10	7.8 (10)	52	10/10
5	14.9 (10)	10/10		11.9 (10)	79	10/10	10.0 (10)	67	10/10	10.0 (10)	67	10/10	8.8 (10)	59	10/10	7.8 (10)	53	10/10
6	14.8 (10)	10/10		11.2 (10)	75	10/10	9.7 (10)	65	10/10	10.0 (10)	67	10/10	8.1 (10)	54	10/10	7.3 (10)	49	10/10
7	14.9 (10)	10/10		11.1 (10)	74	10/10	9.6 (10)	64	10/10	10.3 (10)	69	10/10	8.5 (10)	57	10/10	7.1 (10)	48	10/10
8	15.1 (10)	10/10		11.2 (10)	74	10/10	9.6 (10)	63	10/10	10.2 (10)	67	10/10	8.3 (10)	55	10/10	7.4 (10)	49	10/10
9	16.0 (10)	10/10		11.0 (10)	69	10/10	9.5 (10)	60	10/10	9.9 (10)	62	10/10	8.4 (10)	52	10/10	7.1 (10)	44	10/10
10	14.7 (10)	10/10		10.9 (10)	74	10/10	9.6 (10)	65	10/10	10.2 (10)	69	10/10	8.6 (10)	58	10/10	7.4 (10)	50	10/10
11	14.7 (10)	10/10		11.2 (10)	76	10/10	9.8 (10)	66	10/10	9.4 (10)	64	10/10	8.5 (10)	58	10/10	7.4 (10)	50	10/10
12	14.5 (10)	10/10		11.0 (10)	76	10/10	10.1 (10)	69	10/10	9.3 (10)	64	10/10	8.5 (10)	58	10/10	7.4 (10)	51	10/10
13	14.2 (10)	10/10		10.6 (10)	75	10/10	8.7 (10)	61	10/10	9.7 (10)	68	10/10	7.7 (10)	54	10/10	7.3 (10)	52	10/10

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

TABLE 6 FOOD CONSUMPTION CHANGES OF MALE RATS IN THE 13-WEEK FEED STUDY OF QUINOLINE

Week on Study	Control		158ppm			237ppm			355ppm			533ppm			800ppm		
	Av.FC. <10>	No. of Surviv. 10/10	Av.FC. <10>	% of cont. <10>	No. of Surviv. 10/10	Av.FC. <10>	% of cont. <10>	No. of Surviv. 10/10	Av.FC. <10>	% of cont. <10>	No. of Surviv. 10/10	Av.FC. <10>	% of cont. <10>	No. of Surviv. 10/10	Av.FC. <10>	% of cont. <10>	No. of Surviv. 10/10
1	13.8 (10)	10/10	13.2 (10)	96	10/10	12.9 (10)	93	10/10	12.5 (10)	91	10/10	11.4 (10)	83	10/10	9.6 (10)	70	10/10
2	15.3 (10)	10/10	15.0 (10)	98	10/10	14.3 (10)	93	10/10	14.1 (10)	92	10/10	13.6 (10)	89	10/10	12.8 (10)	84	10/10
3	15.5 (10)	10/10	15.9 (10)	103	10/10	14.7 (10)	95	10/10	14.9 (10)	96	10/10	14.5 (10)	94	10/10	14.1 (10)	91	10/10
4	16.1 (9)	10/10	16.6 (10)	103	10/10	15.8 (10)	98	10/10	15.6 (10)	97	10/10	15.1 (10)	94	10/10	14.9 (10)	93	10/10
5	10.7 (10)	10/10	16.5 (10)	154	10/10	15.3 (10)	143	10/10	15.5 (10)	145	10/10	15.3 (10)	143	10/10	15.1 (10)	141	10/10
6	16.9 (10)	10/10	15.8 (10)	93	10/10	14.9 (10)	88	10/10	15.1 (10)	89	10/10	14.9 (10)	88	10/10	14.6 (10)	86	10/10
7	15.9 (7)	10/10	15.8 (10)	99	10/10	15.0 (10)	94	10/10	14.9 (10)	94	10/10	14.5 (10)	91	10/10	14.5 (10)	91	10/10
8	16.3 (10)	10/10	15.8 (10)	97	10/10	14.7 (10)	90	10/10	15.5 (10)	95	10/10	14.9 (10)	91	10/10	14.7 (10)	90	10/10
9	15.7 (10)	10/10	15.6 (10)	99	10/10	14.6 (10)	93	10/10	15.5 (10)	99	10/10	15.0 (10)	96	10/10	14.9 (10)	95	10/10
10	15.4 (10)	10/10	15.7 (10)	102	10/10	14.8 (10)	96	10/10	15.5 (10)	101	10/10	15.0 (10)	97	10/10	14.7 (10)	95	10/10
11	15.0 (10)	10/10	15.4 (10)	103	10/10	14.4 (10)	96	10/10	15.3 (10)	102	10/10	14.7 (10)	98	10/10	14.8 (10)	99	10/10
12	14.8 (10)	10/10	15.4 (10)	104	10/10	14.6 (10)	99	10/10	15.0 (10)	101	10/10	15.2 (10)	103	10/10	14.4 (10)	97	10/10
13	15.3 (10)	10/10	15.9 (10)	104	10/10	14.8 (10)	97	10/10	15.7 (10)	103	10/10	15.2 (10)	99	10/10	15.2 (10)	99	10/10

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

TABLE 7 FOOD CONSUMPTION CHANGES OF FEMALE RATS IN THE 13-WEEK FEED STUDY OF QUINOLINE

Week on Study	Control		158ppm			237ppm			355ppm			533ppm			800ppm		
	Av.FC. <10>	No. of Surviv. 10/10	Av.FC. <10>	% of cont. <10>	No. of Surviv. 10/10	Av.FC. <10>	% of cont. <10>	No. of Surviv. 10/10	Av.FC. <10>	% of cont. <10>	No. of Surviv. 10/10	Av.FC. <10>	% of cont. <10>	No. of Surviv. 10/10	Av.FC. <10>	% of cont. <10>	No. of Surviv. 10/10
1	11.1 (10)	10/10	10.5 (10)	95	10/10	9.5 (10)	86	10/10	9.8 (10)	88	10/10	8.6 (10)	77	10/10	5.7 (10)	51	10/10
2	11.0 (10)	10/10	10.9 (10)	99	10/10	10.8 (10)	98	10/10	10.6 (10)	96	10/10	10.2 (10)	93	10/10	8.7 (10)	79	10/10
3	11.1 (10)	10/10	11.1 (10)	100	10/10	11.0 (10)	99	10/10	10.6 (10)	95	10/10	10.5 (10)	95	10/10	10.2 (10)	92	10/10
4	10.8 (10)	10/10	10.9 (10)	101	10/10	10.5 (10)	97	10/10	10.4 (10)	96	10/10	10.6 (10)	98	10/10	10.4 (10)	96	10/10
5	10.8 (10)	10/10	10.9 (10)	101	10/10	10.3 (10)	95	10/10	10.4 (10)	96	10/10	10.3 (10)	95	10/10	10.1 (10)	94	10/10
6	10.5 (10)	10/10	10.4 (10)	99	10/10	10.0 (10)	95	10/10	9.9 (10)	94	10/10	10.0 (10)	95	10/10	9.6 (10)	91	10/10
7	10.6 (10)	10/10	10.4 (10)	98	10/10	10.0 (10)	94	10/10	9.9 (10)	93	10/10	10.1 (10)	95	10/10	9.5 (10)	90	10/10
8	10.6 (10)	10/10	10.2 (10)	96	10/10	10.1 (10)	95	10/10	10.2 (10)	96	10/10	10.0 (10)	94	10/10	9.8 (10)	92	10/10
9	10.4 (10)	10/10	10.2 (10)	98	10/10	10.2 (10)	98	10/10	10.1 (10)	97	10/10	10.1 (10)	97	10/10	9.7 (10)	93	10/10
10	10.3 (10)	10/10	10.1 (10)	98	10/10	10.0 (10)	97	10/10	10.1 (10)	98	10/10	10.0 (10)	97	10/10	9.3 (10)	90	10/10
11	9.9 (10)	10/10	10.1 (10)	102	10/10	9.8 (10)	99	10/10	9.9 (10)	100	10/10	10.2 (10)	103	10/10	9.6 (10)	97	10/10
12	10.0 (10)	10/10	10.0 (10)	100	10/10	9.8 (10)	98	10/10	9.9 (10)	99	10/10	10.0 (10)	100	10/10	9.6 (10)	96	10/10
13	9.7 (10)	10/10	9.8 (10)	101	10/10	9.5 (10)	98	10/10	9.7 (10)	100	10/10	9.8 (10)	101	10/10	9.8 (10)	101	10/10

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