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Toxicology

SUBACUTE (30 TIMES) DERMAL TOXICITY STUDY OF OCTOPIROX AS HAIR LOTION AND SHAMPOO IN RABBITS

(Report No. 294/76)

September 22, 1976

Vorsitzender des Aufsichtsrats: Karl Winnacker · Vorstand: Rolf Sammet, Vorsitzender; Kurt Lanz, stellv. Vorsitzender; Erhard Bouillon, Rudolf Frank, Hans Schlachter, Klaus Weissermel · Sitz der Gesellschaft: Frankfurt (M) · Handelsregister: Frankfurt (M) Abt. B Nr. 14500

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1. Summary

The present dermal toxicity study was performed with Octopirox as hair lotion and shampoo in SPF Himalayan rabbits. Two animal groups, consisting of 5 males and 5 females, received 0.1 g of the 0.5 percent Octopirox shampoo or 0.1 ml of the 0.1 percent Octopirox hair lotion.

Two further animal groups received the shampoo or the hair lotion without Octopirox. A fifth group was only treated with demineralized water (0.1 ml per animal).

The shampoo was applied 30 times in 36 days and the hair lotion 30 times in 64 days.

The behavior of the animals was observed, body weight and food consumption were determined; blood, serum and urine examinations were carried out before beginning of the study and after end of treatment.

At the end of treatment, all animals were killed, dissected, and submitted to macroscopic and microscopic examination for pathological findings.

Apart from one female rabbit treated with Octopirox hair lotion, all animals survived up to the end of the study. The animal which died intercurrently exhibited no signs of any substance-induced lesion, either in its behavior or in the pathology findings. Behavior, food consumption, and body weight development of the ramaining animals were similar to those of the control animals.

hematological, clinico-chemical and urinary findings were within the distribution range of the animal strain used.

The macroscopic and microscopic pathology findings revealed no signs of substance-induced organ changes. The occasional skin irritations observed in some animals caused no microscopically detectable changes in the skin of the treated flanks.

2. Method

2.1 Animal species

The present study was performed in 25 male and 25 female Himalayan rabbits (SPF SU1) from Gassner breeding.

2.2 Substances

Active ingredient:	Octopirox
Chemical name:	Monoethanolamine salt of 1-hydroxy-4-methyl-6-(2,4,4-trimethylpentyl)-2-pyridone
Molecular weight:	298.4
Dosage forms:	Shampoo A:*
	preparation with 15 percent detergent (liquid Genapol CRO= Na-alkyltriglycol ether sulfate) and 0.5 percent Octopirox
	Shampoo 0:
	same preparation as A without Octopirox
	Hair lotion A:*
	45 percent aqueous isopropanol solution with slight addition of Ca-pantothenate, nicotinamide, perfuming oil, and cationic and non-ionic tenside + 0.1 percent Octopirox
	Hair lotion 0:
	same preparation as A without Octopirox

(* the exact composition can be given on request)

2.3 Dosing - Number and designation of animals

	Dosing	Number of animals	Animal numbers
Shampoo A (with Octopirox)	100 mg/100 cm^2 skin surface	5	11 - 15
		5	16 - 20
Shampoo 0 (without Octop.)	100 mg/100 cm^2 skin surface	5	21 - 25
		5	26 - 30
Hair lotion A (with Octopirox)	0.1 ml/100 cm^2 skin surface	5	31 - 35
		5	36 - 40
Hair lotion 0 (without Octop.)	0.1 ml/100 cm^2 skin surface	5	41 - 45
		5	46 - 50
Demineralized water (control)	0.1 ml/100 cm^2 skin surface	5	1 - 5
		5	6 - 10

2.4 Treatment

The shampoo A or 0 was applied daily (except Sundays) to the shorn skin, 30 times in total. The shampoo was washed off by good rinsing with water 5 minutes after application.

The hair lotion A or 0 was also applied 30 times in total, but only on 3 or 4 days per week (for treatment dates, see Table of skin findings).

Animals No. 1, 2, 6, 7, and 8, which were treated with demineralized water, served as controls to the rabbits treated with shampoo and were thus killed at the same time as these.

Animals No. 3, 4, 5, 9, and 10 (controls to the rabbits treated with hair lotion) were killed on the 64th day of study after the 30th application.

2.5 Maintenance

During the study, the rabbits were kept individually in cages at room temperature. In order to prevent the animals from licking the treated skin areas and thus taking the active ingredient orally, plastic collars were bound around the necks of the animals.

The rabbits received the mixed feed ERKA 8300 of Robert Koch oHG, Hamm/Westphalia, and tap water ad libitum.

2.6 Examinations

Behavior, general condition and skin changes occurring on the treated skin areas were observed daily. The animals were weighed twice weekly. The food consumption was measured continuously.

Before beginning of treatment and at the respective end of study, the following hematological (a), clinico-chemical (b) and urinary (c) parameters were determined:
(The figures refer to the appended "List of methods employed in clinical and clinico-chemical laboratory assays")

a) Hematological parameters:

Erythrocytes	1.2.1.	Thrombocytes	1.7.
Hemoglobin	1.1.	Leukocytes	1.2.2.
Reticulocytes	1.4.	Differential blood count	1.6.1.

The blood samples were taken from a lateral ear vein.

b) Clinico-chemical parameters:

Calcium	2.9.	Creatinine	2. 6.
Sodium	2.1.	Chloride	2.10.
Potassium	2.2.	Urea-nitrogen	2. 8.1.
Inorg. phosphorus	2.3.	SGOT	2.13.
Uric acid	2.4.	SGPT	2.14.
Total bilirubin	2.5.1.	Alk. phosphatase	2.15.
Blood glucose	2.7.1.		

c) Urinary parameters:

Appearance	3.1.	pH	3.2.1.
Color	3.1.	Glucose	3.4.
Sediment	3.8.	Bilirubin	3.5.
Protein	3.3.	Hemoglobin	3.3.

2.7 Autopsy

At the respective end of study, all animals were killed under pentobarbital sodium anesthesia and examined for macroscopically visible organ changes. Heart, lungs, liver, kidneys, spleen, testicles/ovaries, adrenals, thyroid, brain, and pituitary were weighed and the relative organ weights (in g/100 g body weight) were determined.

The methods used for histological examination are described in the appended "Report on the Macroscopic and Microscopic Examination of Rabbits After Dermal Administration of Octopirox" by Dr. Westen and Prof. Kief, dated February 18, 1976.

3. Results

3.1 Behavior and general condition

Except animal No. 37 (hair lotion A, female) which died on day 43 of study after having shown retarded body weight development, all rabbits survived up to the end of the study. Their behavior and general condition was normal.

3.2 Food consumption and body weight development

The food consumption of the surviving rabbits was not affected by the treatment (see Fig. 5 - 8).

Fig. 4 shows the body weight development in the female rabbits treated with hair lotion. It reveals that the weight of the treated animals was lower than that of the control rabbits from day 36 of study onwards. This is due to the fact that the control animals which were killed on day 36 of study (control to group treated with shampoo) were lighter than the two surviving control animals.

Body weights of these females (in g):

1,948	
1,980	killed on day 36 of study
2,062	
2,132	surviving up to end of study
2,394	

$\bar{x}$ and s of all animals:	2,103 ± 177.7
$\bar{x}$ and s of animals killed on day 36:	1,996 ± 58.8

Substance-induced decrease in body weight of females, as simulated by Fig. 4, can thus be excluded.

The remaining treated animals did not exhibit any substance-induced reduction in body weights either.

3.3 Clinical skin findings

In 4 male and 4 female rabbits treated with shampoo A as well as 3 male and 2 female rabbits treated with shampoo 0, slight skin changes in form of slight reddening and scaling or reddening and scaling were observed in the first week of treatment.

Similar symptoms were also seen in the animals treated with hair lotion. However, the efflorescences were not more frequent at the beginning of study; their frequency was low and independent of particular phases of the study.

The Tables "skin findings" also do not exclude the possibility that the addition of Octopirox to hair lotion 0 or shampoo 0 slightly increases the irritating effect of the preparations.

3.4 Hematological findings

The values obtained for red and white blood count indicated no substance-induced changes. The erythrocyte counts of 2 males and 2 females treated with hair lotion 0 were decreased versus control, but still within the distribution range of the animal strain used.

An influence of the shampoo or the hair lotion on the blood picture is thus most probably excluded.

3.5 Clinico-chemical findings

The clinico-chemical values obtained in the animals treated with hair lotion or shampoo indicated no substance-induced changes. The individual values were mainly within the distribution range of the animal strain used and exhibited no marked differences from the control animals, as far as the small number of samples in the control groups at the end of treatment allows to draw conclusions.

3.6 Urinary findings

At the end of treatment, leucine crystals were detected in the urinary sediment in some males and protein in females. Since such findings occurred at similar frequency in the control animals, a dependence on the substance is improbable.

3.7 Autopsy findings

3.7.1 Organ weights

Due to the small number of control animals, the organ weights permit only a limited comparison. Nevertheless, the data obtained indicatec no marked substance-induced changes.

3.7.2 Macroscopic and microscopic findings

The appended "Report on the Macroscopic and Microscopic Examination of Rabbits After Dermal Administration of Octopirox" by Dr. Westen and Prof. Kief, dated February 18, 1976, describes neither macrocroscopic nor microscopic changes attributable to the administration of Octopirox. This statement does not contradict that under 3.3 since the findings described there no longer occurred at the time of dissection.

The Report also shows that animal No. 37, which died intercurrently, exhibited no remarkable changes. The cause of death can thus not be attributed to substance-induced lesions in the organs examined.

Dr. Ma

September 22, 1976

Pharmaceutical Research/Toxicology

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Signed:

Dr. Mayer
Study Director

Dr. Weigand
Industrial Toxicology

Prof. Kramer
Head of Department

Appendices

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Skin findings (shampoo)

♂ rabbits

Animal No.	1	2	3	4	5	11	12	13	14	15	21	22	23	24	25
Test day		Control					Shampoo A					Shampoo O			
12. (Feb.)									slr		r				
13.						r		slr	r,ch		r			slr	slr
14.						slr,s	slr,s	slr,s	r,s		r,s			slr	slr,s
17.			sls			sls	sls	sls	sls,slr		sls			slr	sls
18.			sls					sls	slr		sls			slr	sls
19.														slr	
20															
21.															
23.															
24.															
25.															
26.						slr									
27.															
28.															
2. (March)															
3.															
4.															
5.															
6.															
7.						slr									
10.															
11.															
12.															
13.															
14.															
17.															
18.															
19.	✠	✠				✠	✠	✠	✠	✠	✠	✠	✠	✠	✠
20.															
21															
24.															
25.															
26.															
27.															
1. (April)															
2.															
3.															
4.															
7.															
8.															
9.															
10.															
11.															
14.															
15.			✠	✠	✠										

ch = chopped
r = reddening
slr= slight reddening
s = scaling
sls = slight scaling
✠ = killed

Skin findings (hair lotion)

♂ rabbits

imal No.	1	2	3	4	5	31	32	33	34	35	41	42	43	44	45
st day			Control			Hair lotion A					Hair lotion 0				
12.Feb ←															
13.						slr									
14. ←						r,s	r,s								
17. ←			sls				sls								
18.			sls												
19. ←															
20.															
21. ←															
23. ←															
24. ←															
25.															
26. ←															
2b.															
2 Mar ←															
3. ←															
4.										slr					
5. ←															
6.										slr					
7. ←															
0. ←															
1.										slr					
2. ←															
3.															
4. ←															
7. ←															
8.															
9. ←	✠	✠													
0.															
1. ←															
←															
5. ←															
7. ←															
Apr ←							slr		slr	slr					slr
←															
5.															
←							slr								
←											slr	slr			slr
							slr	slr	slr						
←															
←															
←															
			✠	✠	✠	✠	✠	✠	✠	✠	✠	✠	✠	✠	✠

ch = chopped
r = reddening
slr = slight reddening
s = scaling
sls = slight scaling
✠ = killed
← = dates of application

Skin findings (shampoo)

♀ rabbits

imal No.	6	7	8	9	10	16	17	18	19	20	26	27	28	29	30
st day		Control					Shampoo A				Shampoo 0				
Feb.															
								r,s	sls						
							sls	s	s		sls			sls	
							sls		sls	slr	sls			sls	
											sls			sls	
March															
	✠	✠	✠			✠	✠	✠	✠	✠	✠	✠	✠	✠	✠
April															
				✠	✠										

ch = chopped
r = reddening
slr = slight reddening
s = scaling
sls = slight scaling
✠ = killed

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Skin findings (hair lotion)

♀ rabbits

Animal No.	6	7	8	9	10	36	37	38	39	40	46	47	48	49	50
Test day		Control					Hair lotion A					Hair lotion 0			
12. Feb ←															
13.															
14. ←															
17. ←						sls	sls			sls					
18.															
19. ←															
20.															
21. ←															
23. ←															
24. ←															
25.						slr	slr				slr			slr	
26. ←							slr				slr				
27.											slr			slr	
28. ←														slr	
2 Mar ←															
3. ←															
4.							slr						slr		
5. ←													slr		
6.							slr						slr	slr	
7. ←							slr	slr						slr	
10. ←															
11.								slr	slr					slr	
12. ←															
13.															
14. ←															
17. ←															
18.															
19. ←	✝	✝	✝												
20.															
21. ←															
24. ←															
25.							d								
26. ←															
27. ←															
1 Apr ←															
2. ←															
3.															
4. ←															
7. ←															
8.															
9. ←															
10.															
11. ←															
14. ←															
15.				✝	✝	✝		✝	✝	✝	✝	✝	✝	✝	✝

ch = chopped
r = reddening
slr = slight reddening
← = dates of application
s = scaling
sls = slight scaling
✝ = killed
d = died

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Report on the Macroscopic and Microscopic Examination of Rabbits After Dermal Administration of Octopirox

(30 times)

Examination was made of the inner organs and a piece of flank skin of 50 (25 male and 25 female) rabbits. 10 animals each (5 males and 5 females) had been treated 30 times with 100 mg shampoo A (with Octopirox) or shampoo 0 (without Octopirox) or with 0.1 ml hair lotion A (with Octopirox) or hair lotion 0 (without Octopirox), applied to 100 cm^2 of the flank skin. The corresponding control group had been treated in the same way with 0.1 ml water.

The macroscopic examination revealed no substance-induced changes either in the inner organs or in the treated skin site.

The microscopic examination did not show any pathological changes - particularly not in the treated skin site - which could have been attributed to the administration of Octopirox.

The epidermis of the skin site examined exhibited neither a thickening of the epithelium, which generally consisted of 1 - 3 cell layers, nor an activation of its cell nuclei. There were no signs of increased hornification (Stratum corneum). No symptoms of inflammatory changes were detected in the subepithelial region of the corium as compared to controls or animals treated with drug-free preparations. In addition, Octopirox did not induce any morphologically recognizable changes in fat and iron metabolism of the inner organs. The hematopoietic series of bone marrow exhibited normal maturation.

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Many of the treated and control animals showed substance-independent homogeneous PAS-positive deposits at the periphery of spleen follicles. Frequent calcifications and isolated focal atrophies of tubules were further observed in the kidneys. The testicles of several males exhibited isolated tubule atrophies and formation of giant cells. Further substance-independent findings are described in the detailed part of this report.

Summarizing, it can be stated that the 30-fold application of 100 mg shampoo A or 0 or of 0.1 ml hair lotion A or 0 to the flank skin of rabbits did not cause any pathological changes either locally or in the inner organs of rabbits.

Dr. We/Prof. K
Feb. 18, 1976

Signed:
Prof. Kief Dr. Westen

Individual Macroscopic and Microscopic Findings in Rabbits After Dermal Administration of Octopirox

(30 times)

Examination was made of frozen sections stained with Fat Red 7 B of heart, liver, kidneys, and adrenals. Parts of the same organs as well as lungs, spleen, cerebrum, cerebellum, gonads, prostate, epididymides, uterus, pancreas, pituitary, thyroid, stomach, small intestine, colon, eyes with optic nerves, thymus, and urinary bladder were embedded in paraffin and sections thereof were stained with H & E. A piece of flank skin was likewise examined after H & E, PAS and van Gieson staining.

Controls to Octopirox, 30 dermal applications in rabbits

Animals No. 1 - 5 (GT 246 - 250/75)	5 male rabbits
Animals No. 6 - 10 (GT 251 - 255/75)	5 female rabbits
Beginning of study:	Feb. 11, 1975
End of study:	Apr. 14, 1975
Dates of killing:	Mar. 19, 1975: animals No. 1, 2, 6, 7, 8.
	Apr. 15, 1975: remaining animals of the group.
Macroscopic findings:	All organs unremarkable.
Microscopic findings:	
Heart:	N.A.D.
Lungs:	N.A.D.
Liver:	Very slight lymphoplasmacellular infitrations at the periphery of bile ducts in most of the animals. Small isolated Kupffer's cell proliferations. Otherwise, N.A.D.

Spleen:	In animals No. 1, 6, 8, and 9, moderate amorphous positive deposits at the periphery of follicles. Otherwise, N.A.D.
Adrenals:	N.A.D.
Kidneys:	Slight calcifications as well as focal tubule atrophies or tubule dilations with thickening of basal membrane in several animals. Otherwise, N.A.D.
Cerebrum:	N.A.D.
Cerebellum:	N.A.D.
Testicles:	In animal No. 5, several seminiferous tubules exhibiting atrophic epithelium, cell detritus and slight formation of giant cells. Otherwise, N.A.D.
Epididymides:	In animal No. 5, canaliculi mainly filled with cell detritus. Otherwise, N.A.D.
Prostate:	N.A.D.
Ovaries:	N.A.D.
Uterus:	N.A.D.
Pancreas:	N.A.D.
Pituitary:	N.A.D.
Thyroid:	N.A.D.
Bone marrow:	N.A.D.
Gastrointestinal tract:	In animal No. 4, coccidia oocysts. Otherwise, N.A.D.
Thymus:	N.A.D.
Urinary bladder:	Calcareous gravel deposits in several animals. Otherwise, N.A.D.
Eyes with optic nerves:	N.A.D.
Skin site:	Epithelium of epidermis exhibiting mostly 1 - 3 layers. Very rare and isolated accumulations of lymphocytes in the subepithelial corium. Otherwise, N.A.D.

Shampoo A (with Octopirox), 100 mg/100 cm^2 skin surface

30 dermal applications in rabbits

Animals No. 11 - 15 (GT 256 - 260/75)	5 male rabbits
Animals No. 16 - 20 (GT 261 - 265/75)	5 female rabbits
beginning of study:	Feb. 11, 1975
End of study:	Mar. 18, 1975
Date of killing:	Mar. 19, 1975
Macroscopic findings:	All organs unremarkable.
Microscopic findings:	
Heart:	N.A.D.
Lungs:	N.A.D.
Liver:	Very slight and very isolated Kupffer's cell proliferations in most animals. Slight lymphoplasmacellular infiltrations at the periphery of bile ducts. Otherwise, N.A.D.
Spleen:	In all females, moderate homogeneous PAS-positive deposits at the periphery of follicles. Otherwise, N.A.D.
Adrenals:	N.A.D.
Kidneys:	Slight to moderate calcifications in the cortical region as well as small tubule atrophies in most of the animals. Otherwise, N.A.D.
Cerebrum:	N.A.D.
Cerebellum:	N.A.D.
Testicles:	In animal No. 12, isolated polynuclear giant cells in seminiferous tubules. Otherwise, N.A.D.
Epididymides:	N.A.D. in No. 12, filled with cell detritus in No. 15. Otherwise, N.A.D.
Prostate:	N.A.D.

Ovaries:	N.A.D.
Uterus:	N.A.D.
Pancreas:	In animal No. 20, one large lymphocytic interstitial infiltration. Otherwise, N.A.D.
Pituitary:	N.A.D.
Thyroid:	N.A.D.
Bone marrow:	N.A.D.
Gastrointestinal tract:	N.A.D.
Thymus:	N.A.D. (no sample from No. 19)
Urinary bladder:	Calcareous gravel deposits in several animals. Otherwise, N.A.D.
Eyes with optic nerves:	N.A.D.
Skin site:	Epithelium of epidermis exhibiting mostly 1 - 3 layers. In No. 17, an area exhibiting signs of focal thickening with round nuclei. Very isolated and slight lymphocyte accumulations in the subepithelial corium in some animals. Otherwise, N.A.D. (no sample from No. 20).

Shampoo O (without Octopirox), 100 mg/100 cm^2 skin surface,

30 dermal applications in rabbits

Animals No. 21 - 25 (GT 266 - 270/75)	5 male rabbits
Animals No. 26 - 30 (GT 271 - 275/75)	5 female rabbits
Beginning of study:	Feb. 11, 1975
End of study:	Mar. 18, 1975
Date of killing:	Mar. 19, 1975

Macroscopic findings: All organs unremarkable.

Microscopic findings:

Heart:	N.A.D.
Lungs:	In animal No. 24, small isolated focal accumulations of reticular cells. Otherwise, N.A.D.
Liver:	In animal No. 22, several Glisson's capsules connected with one another by a large lymphocytic infiltration. In most of the animals, slight lymphoplasmacellular infiltrations at the periphery of bile ducts as well as very small isolated Kupffer's cell proliferations. Otherwise, N.A.D.
Spleen:	In animal No. 28, moderate homogeneous PAS-positive deposits at the periphery of follicles. Otherwise, N.A.D.
Adrenals:	N.A.D.
Kidneys:	In several animals, small calcifications in the cortex as well as isolated focal tubule atrophies, partly accompanied by dilation. Otherwise, N.A.D.
Cerebrum:	N.A.D.
Cerebellum:	N.A.D.

Testicles:	In animal No. 25, isolated atrophic tubules. In animals No. 22 and 23, isolated polynuclear giant cells. Otherwise, N.A.D.
Epididymides:	In animal No. 25, abundant cell detritus among intact spermatozoa. Otherwise, N.A.D.
Prostate:	N.A.D.
Ovaries:	N.A.D.
Uterus:	N.A.D.
Pancreas:	N.A.D.
Pituitary:	N.A.D.
Thyroid:	N.A.D.
Bone marrow:	N.A.D.
Gastrointestinal tract:	N.A.D.
Thymus:	N.A.D.
Urinary bladder:	Fine calcareous gravel in most of the animals. Otherwise, N.A.D.
Eyes with optic nerves:	N.A.D.
Skin site:	Epithelium of epidermis exhibiting mostly 1 - 3 layers, unremarkable. Subepithelial corium: N.A.D.

Hair lotion A (with Octopirox), 0.1 ml/100 cm^2 skin surface,

30 dermal applications in rabbits

Animals No. 31 - 35 (GT 276 - 280/75)	5 male rabbits
Animals No. 36 - 40 (GT 281 - 285/75)	5 female rabbits
Beginning of study:	Feb. 11, 1975
End of study:	Apr. 14, 1975
Date of killing:	Apr. 15, 1975

Macroscopic findings: No changes recognizable.

Microscopic findings:

Heart:	N.A.D.
Lungs:	In animals No. 36 and 38, isolated small foci with reticular cells. Otherwise, N.A.D.
Liver:	In most of the animals, slight lymphoplasmacellular infiltrations at the periphery of bile ducts as well as small isolated Kupffer's cell proliferations. In animal No. 31, small encapsulated abscess (section stained with Fat Red). In No. 39, isolated Glisson's capsule showing strong focal lymphocytic infiltration. Otherwise, N.A.D.
Spleen:	In animals No. 36 - 38 and 40, moderate homogeneous PAS-positive deposits at the periphery of follicles. Otherwise, N.A.D.
Adrenals:	N.A.D.
Kidneys:	In several animals, partly strong (No. 36 calcifications in the cortical region as well as focal tubule atrophies, sometimes accompanied by dilation. Otherwise, N.A.D.

Cerebrum:	N.A.D.
Cerebellum:	N.A.D.
Testicles:	Isolated polynuclear giant cells in seminiferous tubules of animal No. 33. Otherwise, N.A.D.
Epididymides:	N.A.D.
Prostate:	N.A.D.
Ovaries:	N.A.D.
Uterus:	Sections from animal No. 36 showing parts of uterus with decidua. Otherwise, N.A.D.
Pancreas:	Isolated focal lymphocytic infiltration in animal No. 33. Otherwise, N.A.D. (no sample from animal No. 40.
Pituitary:	N.A.D.
Thyroid:	N.A.D.
Bone marrow:	N.A.D. (no sample from animal No. 31)
Gastrointestinal tract:	N.A.D.
Thymus:	N.A.D.
Urinary bladder:	Calcareous gravel deposits in several animals. Otherwise, N.A.D.
Eyes with optic nerves:	N.A.D.
Skin site:	Epithelium of epidermis exhibiting mostly 1 - 3 layers; upper epithelium layer missing in No. 36. In the subepithelial corium of some animals, rare and very small accumulations of lymphocytes. Otherwise, N.A.D. (no skin section from animal No. 34)

Hair lotion O (without Octopirox), 0.1 ml/100 cm^2 skin surface,

30 dermal applications in rabbits

Animals No. 41 - 45 (GT 286 - 290/75)	5 male rabbits
Animals No. 46 - 50 (GT 291 - 295/75)	5 female rabbits
Beginning of study:	Feb. 11, 1975
End of study:	Apr. 14, 1975
Date of killing:	Apr. 15, 1975

Macroscopic findings: No changes recognizable.

Microscopic findings:

Heart:	Isolated very small lymphocytic infiltration in the left ventricular wall of animal No. 46. Otherwise, N.A.D.
Lungs:	Small isolated focal accumulation of reticular cells in animals No. 42 and 43. Otherwise, N.A.D.
Liver:	In all animals, very slight lymphoplasmacellular infiltrations at the periphery of bile ducts as well as very isolated Kupffer's cell proliferations. Otherwise, N.A.D.
Spleen:	In animal No. 49, slight homogeneous PAS-positive deposits at the periphery of individual follicles. Otherwise, N.A.D.
Adrenals:	N.A.D.
Kidneys:	In all animals, moderate calcifications in the cortical region and focal tubule atrophies in some cases. Otherwise, N.A.D.
Cerebrum:	N.A.D.
Cerebellum:	N.A.D.

Testicles:	In animals No. 41, 42, and 43, several seminiferous tubules exhibiting atrophic epithelium and cell detritus as well as isolated polynuclear giant cells (the latter also in animal No. 45). Otherwise, N.A.D.
Epididymides:	N.A.D.
Prostate:	N.A.D.
Ovaries:	N.A.D. (no sample from animal No. 48)
Uterus:	N.A.D.
Pancreas:	N.A.D.
Pituitary:	N.A.D.
Thyroid:	N.A.D.
Bone marrow:	N.A.D. (no sample from animal No. 48)
Gastrointestinal tract:	N.A.D.
Thymus:	N.A.D. (no sample from animal No. 48)
Urinary bladder:	Slight calcareous gravel in most of the animals. (no sample from animals No. 44, 46, and 48)
Eyes with optic nerves:	N.A.D.
Skin site:	Epithelium of epidermis exhibiting mostly 1 - 3 layers. In the subepithelial corium, signs of focal lymphocyte accumulations in several animals, in No. 49 accompanied by isolated neutrophilic granulocytes. Otherwise, N.A.D. (no epidermis sample from animal No. 44)

Dr. We
Feb. 18, 1976

Figure 1: Body weight development, ♂ rabbits (n = 5), Octopirox, 30 times in 36 days (shampoo)

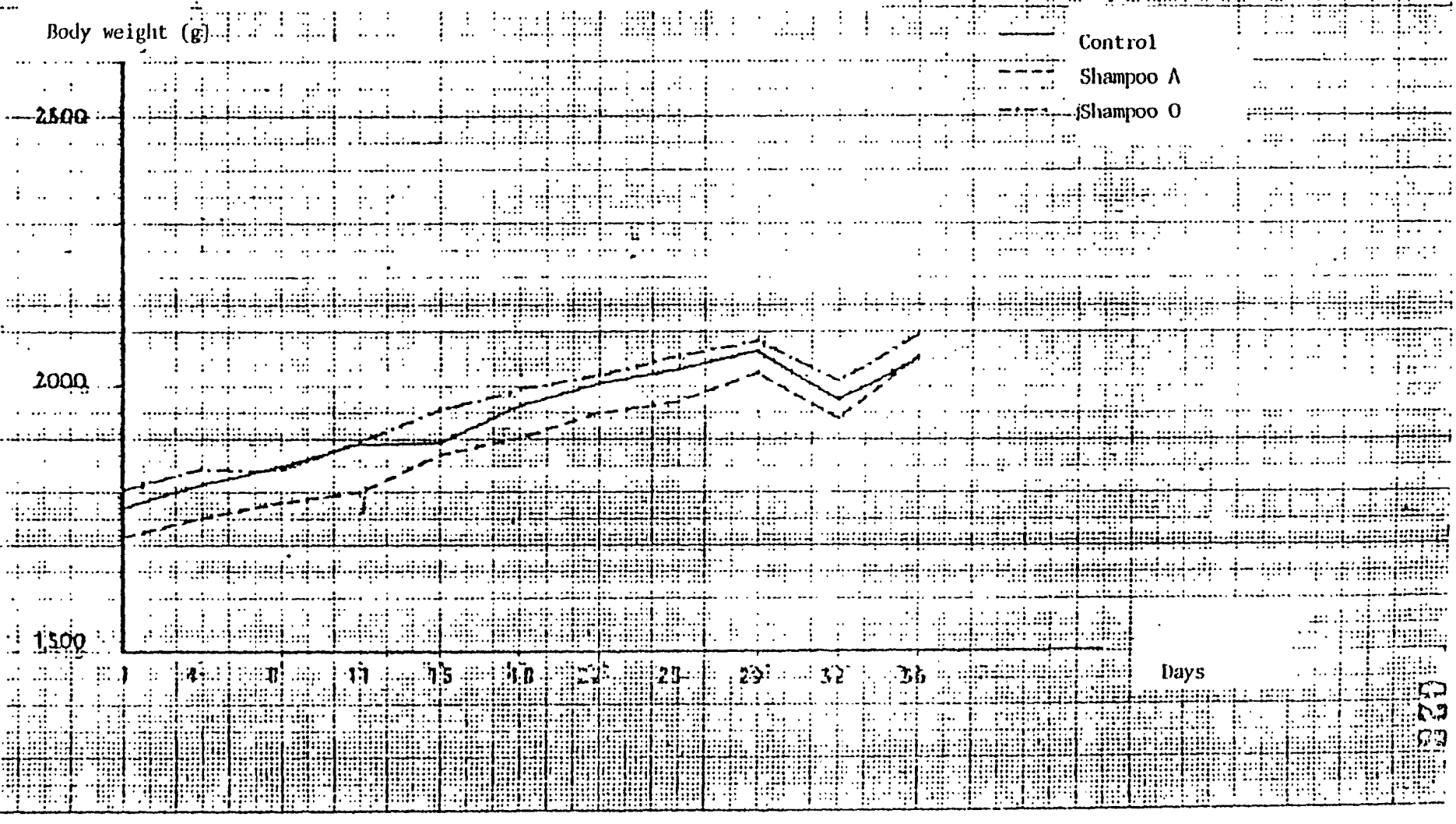


Figure 2: Body weight development, ♀ rabbits (n = 5), Octopirox, 30 times in 36 days (shampoo)

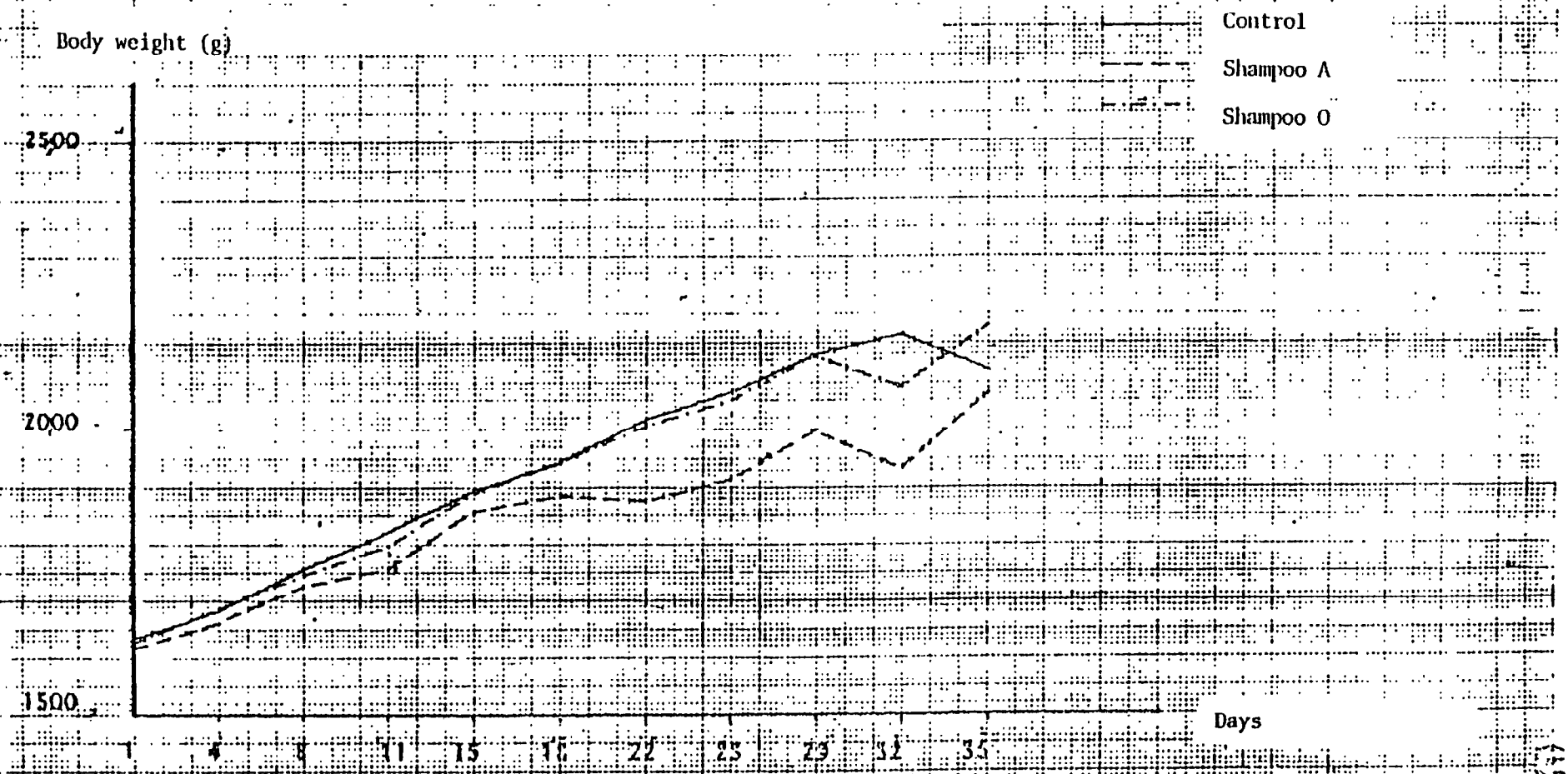


Figure 3: Body weight development, ♂ rabbits (n = 5), Octopirox, 30 times in 64 days (hair lotion) - Control group consisted only of 3 animals from day 36 onwards

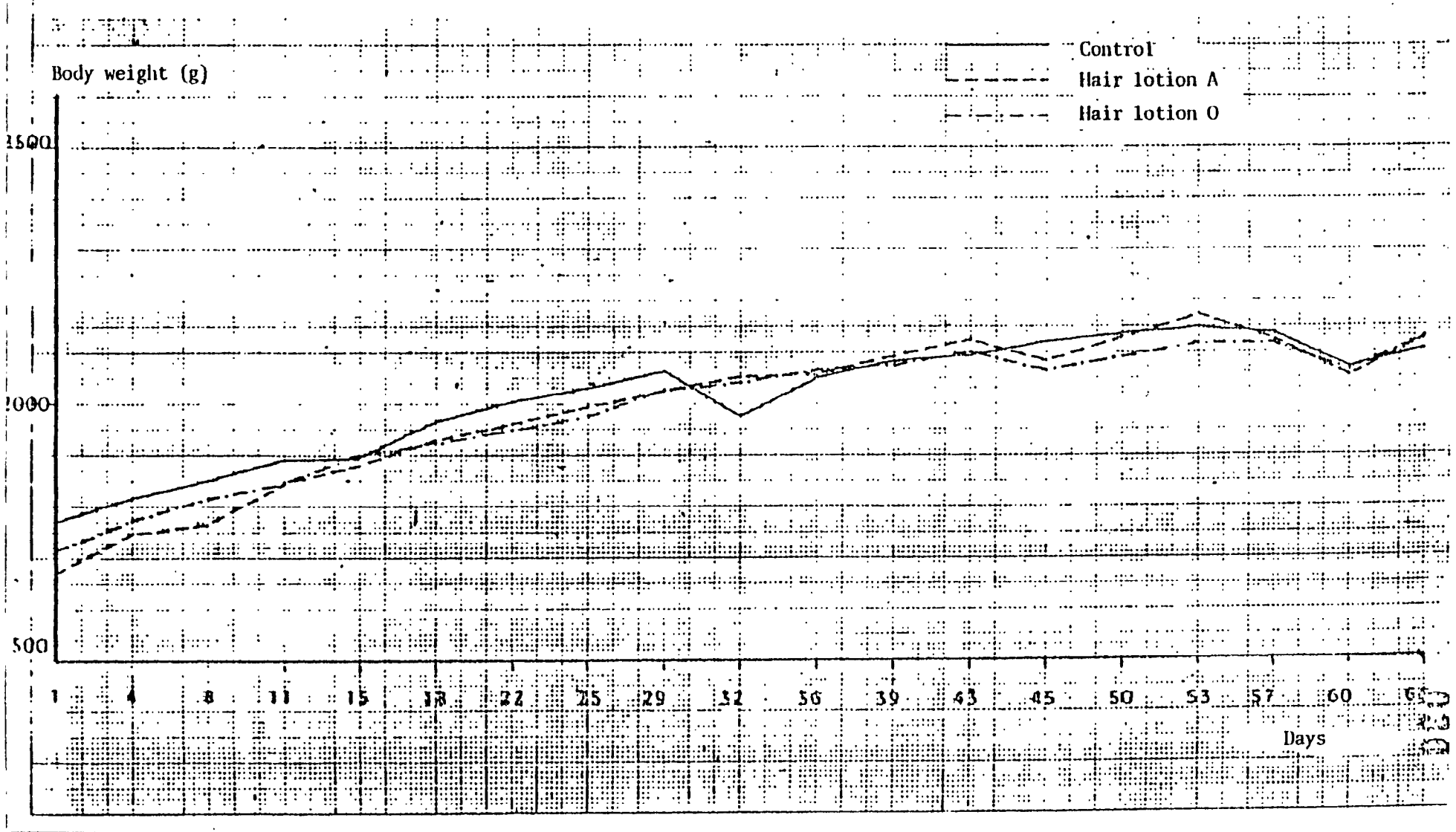


Figure 4: Body weight development, ♀ rabbits (n = 5), Octopirox, 30 times in 64 days (hair lotion) - Control group consisted only of 2 animals from day 36 onwards

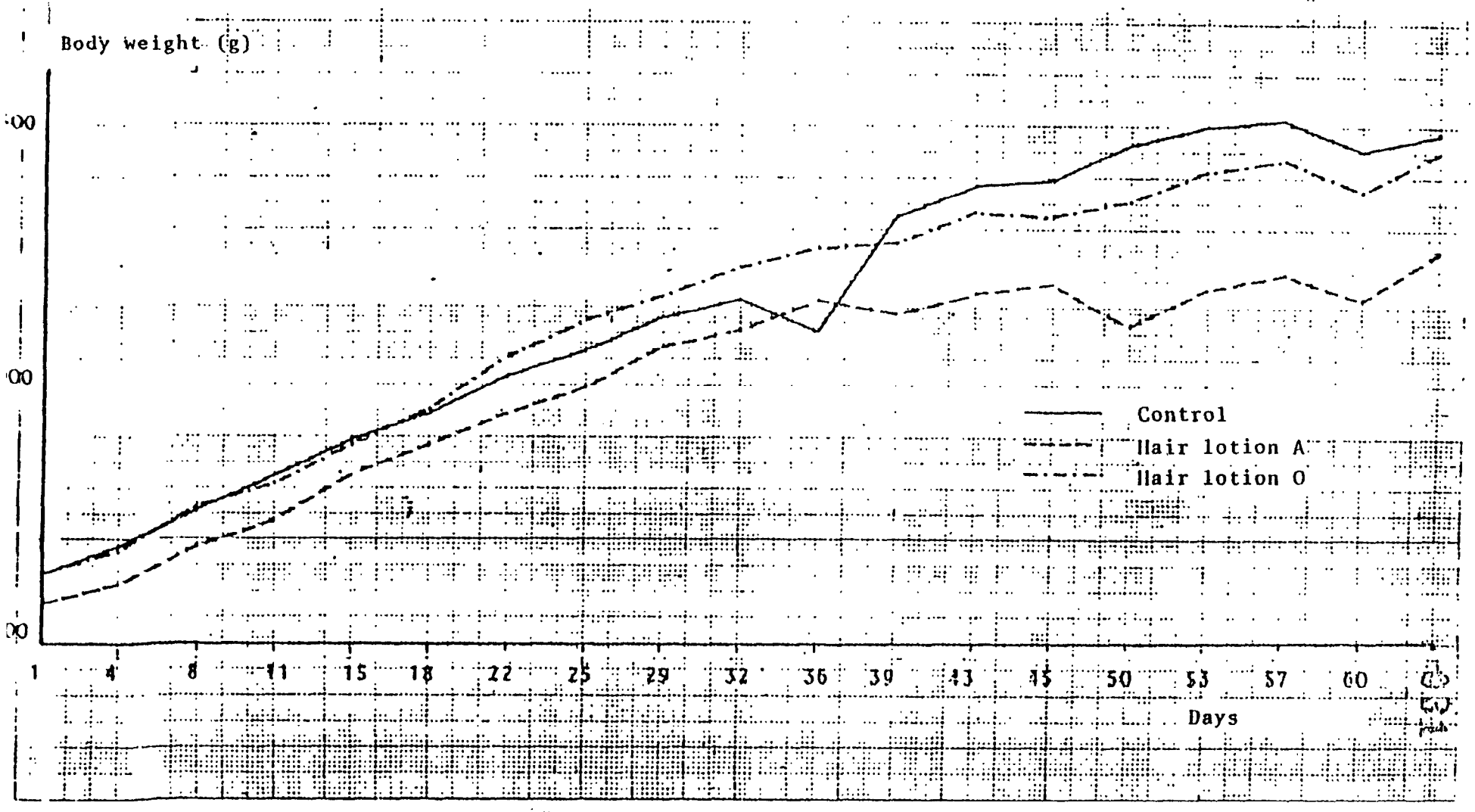


Figure 5: Food consumption in g/100 g body weight, ♂ rabbits (n = 5), Octopirox, 30 times in 36 days (shampoo)

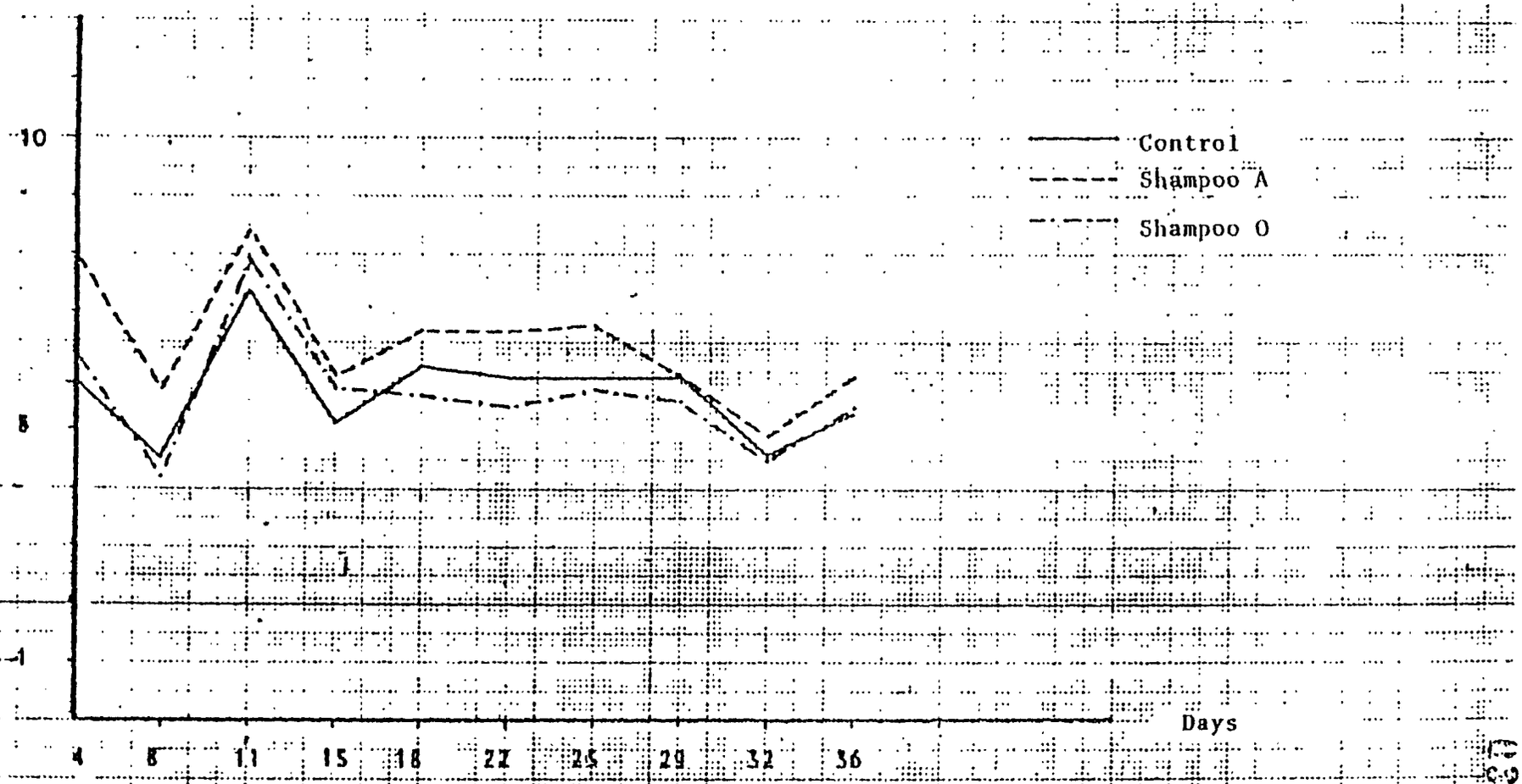


Figure 6: Food consumption in g/100 g body weight,
♀ rabbits (n = 5),
Octopirox, 30 times in 36 days (shampoo)

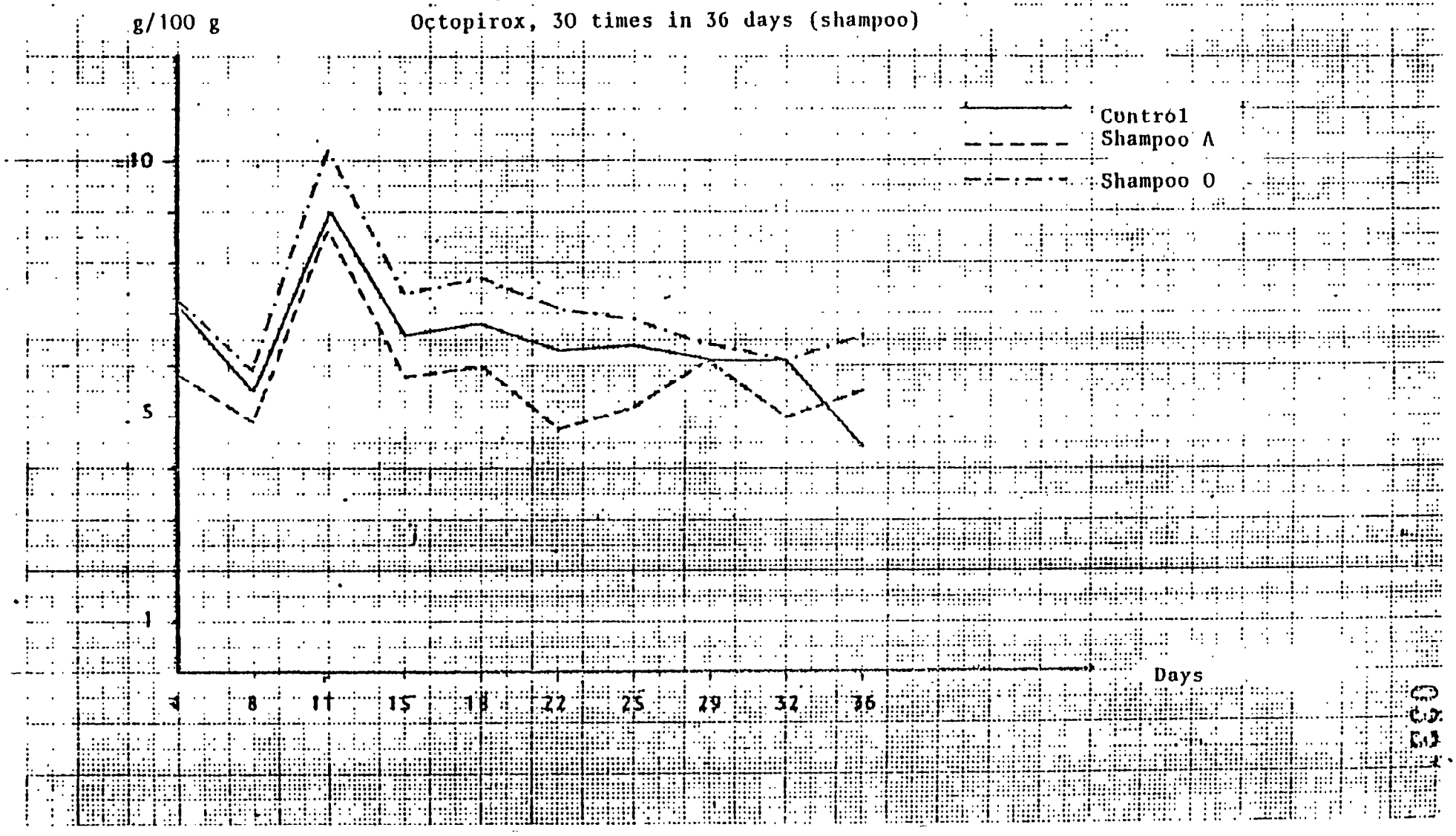


Figure 7: Food consumption in g/100 g body weight, ♂ rabbits (n = 5), Octopirox, 30 times in 64 days (hair lotion) - Control group consisted of 3 animals from day 36 onwards

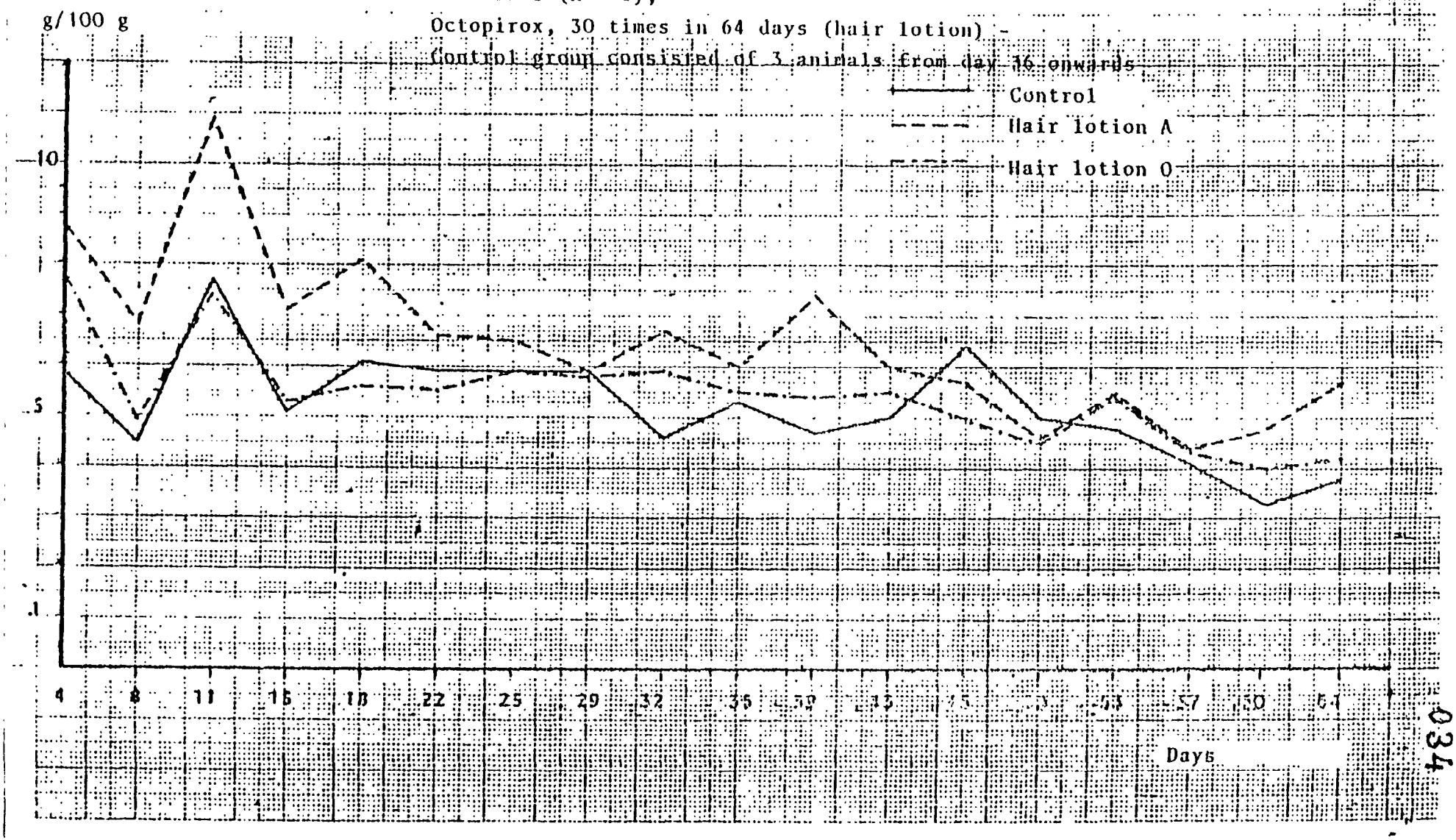
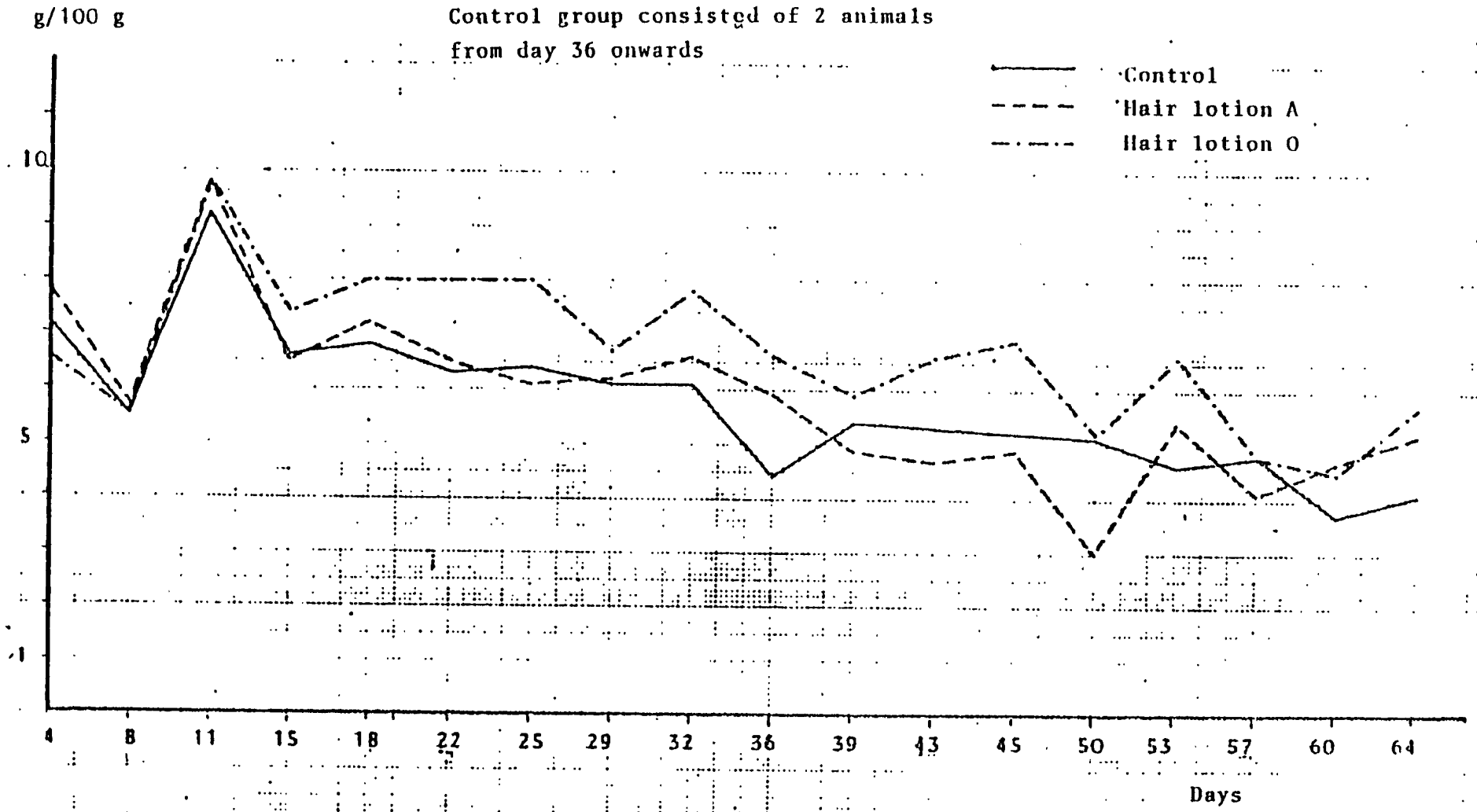


Figure 8: Food consumption in g/100 g body weight, ♀ rabbits (n = 5), Octopirox, 30 times in 64 days (hair lotion) - Control group consisted of 2 animals from day 36 onwards



LABORPROTOKOLL: FUTTERVERBRAUCH UND KOERPERGEWICHT

METHODE: HT 000 VERSUCH: 0506 VERS.BEGINN: 03.02.1975
PRAEPARATNR: H726146A
CHRONISCHE TOXIZITAET - DAUER SIEHE TEXT
PRUEFUNGSLEITER: LOECHELT,DR.
VERSUCHSTIER: KANINCHEN
STAMM: HDE:HIMK(SPF SL1)
ZUECHTER: GASSNER
APPLIKATIONSWEG: EPICUTAN

VERSUCHSDAUER: 30 TAGE.

KOLLEKTIV 1.DOSIS ERHIELT SHAMPOO A.
KOLLEKTIV 2.DOSIS ERHIELT Shampoo Null
KOLLEKTIV 3.DOSIS ERHIELT HAARWASSER A.
KOLLEKTIV 4.DOSIS ERHIELT HAARWASSER NULL.

ALS LOESUNGSMITTEL BEIM SHAMPOO WURDE AQUA DEST. BENUTZT.

HOECHST AG UEBERSICHTSBOGEN FUTTERVERBRAUCH UND KOERPERGEWICHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: KONTROLLE GESCHLECHT: MAENNCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
1	1	XQUER	1771.2				
		S	75.6				
		N	5				
4	2	XQUER	1814.4	43.2	43.2	104.33	5.812
		S	67.8	17.4	17.4	10.37	0.407
		N	5	5	5	5	5
8	3	XQUER	1850.8	79.6	36.4	83.05	4.533
		S	85.1	18.4	20.9	8.05	0.410
		N	5	5	5	5	5
11	4	XQUER	1891.8	120.6	41.0	144.87	7.733
		S	81.9	31.4	29.8	14.15	0.515
		N	5	5	5	5	5
15	5	XQUER	1893.6	122.4	1.8	97.40	5.121
		S	104.3	56.1	76.2	26.54	1.317
		N	5	5	5	5	5
18	6	XQUER	1966.0	194.8	72.4	116.93	6.059
		S	79.8	25.7	68.5	7.37	0.264
		N	5	5	5	5	5
22	7	XQUER	2007.6	236.4	41.6	117.45	5.924
		S	79.3	19.8	11.6	12.89	0.747
		N	5	5	5	5	5
25	8	XQUER	2031.8	260.6	24.2	119.67	5.929
		S	65.4	21.3	20.4	7.00	0.374
		N	5	5	5	5	5
29	9	XQUER	2067.4	296.2	35.6	120.35	5.859
		S	96.2	37.6	32.4	15.60	0.579
		N	5	5	5	5	5
32	10	XQUER	1976.6	205.4	-90.7	92.40	4.561
		S	88.9	45.5	47.7	11.50	0.423
		N	5	5	5	5	5
36	11	XQUER	2050.0	278.8	73.4	106.75	5.302
		S	69.0	49.2	54.3	6.93	0.278
		N	5	5	5	5	5

037

HOECHST AG UEBERSICHTSBOGEN FUTTERVERBRAUCH UND KOERPERGE CHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: KONTROLLE GESCHLECHT: MAENNCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
39	12	XQUER	2082.7	296.7	19.3	97.78	4.725
		S	99.1	53.5	15.3	4.68	0.340
		N	3	3	3	3	3
43	13	XQUER	2092.0	306.0	9.3	105.00	5.024
		S	113.0	45.8	22.5	9.01	0.192
		N	3	3	3	3	3
45	14	XQUER	2119.7	333.7	27.7	134.83	6.382
		S	129.7	55.2	17.2	30.58	1.304
		N	3	3	3	3	3
50	15	XQUER	2138.0	352.0	18.3	107.47	5.045
		S	120.5	37.0	21.0	14.00	0.530
		N	3	3	3	3	3
53	16	XQUER	2149.3	363.3	11.3	102.67	4.790
		S	103.2	36.1	23.4	5.21	0.081
		N	3	3	3	3	3
57	17	XQUER	2139.3	353.3	-9.9	88.00	4.101
		S	118.7	34.8	23.1	6.24	0.084
		N	3	3	3	3	3
60	18	XQUER	2073.7	287.7	-65.6	69.56	3.297
		S	103.9	49.7	36.6	8.30	0.290
		N	3	3	3	3	3
64	19	XQUER	2105.3	319.3	31.7	79.42	3.750
		S	154.1	77.8	52.3	31.61	1.322
		N	3	3	3	3	3
XQUER FUER DEN GESAMTZEITRAUM						104.88	5.219

028

HOECHST AG UEBERSICHTSBOGEN. FUTTERVERBRAUCH UND KOERPERGEWICHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: KONTROLLE GESCHLECHT: WEIBCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
1	1	XQUER	1637.4				
		S	110.9				
		N	5				
4	2	XQUER	1686.6	49.2	49.2	116.87	7.063
		S	120.1	18.2	18.2	18.87	1.323
		N	5	5	5	5	5
8	3	XQUER	1758.0	120.6	71.4	93.70	5.452
		S	140.7	32.4	24.5	13.71	0.832
		N	5	5	5	5	5
11	4	XQUER	1821.2	183.8	63.2	160.67	9.028
		S	163.2	56.3	26.6	32.90	2.116
		N	5	5	5	5	5
15	5	XQUER	1896.4	259.0	75.2	122.75	6.624
		S	173.3	69.7	22.2	19.55	1.111
		N	5	5	5	5	5
18	6	XQUER	1944.8	307.4	48.4	130.13	6.844
		S	153.4	47.5	36.8	22.64	1.576
		N	5	5	5	5	5
22	7	XQUER	2018.0	380.6	73.2	125.20	6.347
		S	166.6	65.8	25.6	11.48	0.755
		N	5	5	5	5	5
25	8	XQUER	2064.8	427.4	46.8	130.60	6.406
		S	151.2	51.7	19.0	18.08	0.853
		N	5	5	5	5	5
29	9	XQUER	2130.0	492.6	65.2	127.80	6.085
		S	155.8	64.7	17.7	14.47	0.391
		N	5	5	5	5	5
32	10	XQUER	2166.6	529.2	36.6	132.27	6.138
		S	179.8	87.4	27.8	21.16	0.683
		N	5	5	5	5	5
36	11	XQUER	2103.2	465.8	-63.3	95.10	4.429
		S	177.7	78.7	22.7	18.80	0.590
		N	5	5	5	5	5

HOECHST AG UEBERSICHTSBOGEN FUTTERVERBRAUCH UND KOERPERGE CHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: KONTROLLE GESCHLECHT: WEIBCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
39	12	XQUER	2325.0	591.5	62.0	125.00	5.418
		S	239.0	122.3	53.7	26.87	0.670
		N	2	2	2	2	2
43	13	XQUER	2386.5	653.0	61.5	125.00	5.306
		S	238.3	121.6	0.7	12.73	0.003
		N	2	2	2	2	2
45	14	XQUER	2396.0	662.5	9.5	123.75	5.183
		S	220.6	103.9	17.7	8.13	0.157
		N	2	2	2	2	2
50	15	XQUER	2466.0	732.5	70.0	124.40	5.139
		S	181.0	64.3	39.6	2.26	0.518
		N	2	2	2	2	2
53	16	XQUER	2500.0	766.5	34.0	113.33	4.584
		S	226.3	109.6	45.3	2.83	0.490
		N	2	2	2	2	2
57	17	XQUER	2511.0	777.5	11.0	120.50	4.808
		S	207.9	91.2	18.4	11.31	0.035
		N	2	2	2	2	2
60	18	XQUER	2452.0	718.5	-58.9	93.00	3.713
		S	240.4	123.7	32.5	27.34	0.766
		N	2	2	2	2	2
64	19	XQUER	2488.0	754.5	36.0	101.37	4.077
		S	282.8	166.2	42.4	23.51	0.520
		N	2	2	2	2	2
XQUER FUER DEN GESAMTZEITRAUM						120.08	5.702

040

HOECHST AG UEBERSICHTSBOGEN. FUTTERVERBRAUCH UND KOERPERGEWICHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: VERSUCHSPRAEPARAT 1.DOSIS GESCHLECHT: MAENNCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975
DOSIS: 100.00 MG/TIER

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
1	1	XQUER	1717.0				
		S	97.5				
		N	5				
4	2	XQUER	1750.4	33.4	33.4	138.47	7.928
		S	100.7	15.4	15.4	49.43	2.536
		N	5	5	5	5	5
8	3	XQUER	1781.2	64.2	30.8	100.70	5.698
		S	96.4	24.2	27.5	20.85	1.112
		N	5	5	5	5	5
11	4	XQUER	1800.8	83.8	19.6	152.33	8.428
		S	117.5	32.6	23.8	20.44	0.574
		N	5	5	5	4	4
15	5	XQUER	1871.2	154.2	70.4	108.40	5.860
		S	151.1	61.9	36.6	23.87	0.881
		N	5	5	5	5	5
18	6	XQUER	1901.6	184.6	30.4	127.20	6.740
		S	148.8	56.7	32.4	29.11	1.447
		N	5	5	5	5	5
22	7	XQUER	1949.0	232.0	47.4	129.20	6.732
		S	148.0	57.6	7.4	26.99	1.480
		N	5	5	5	5	5
25	8	XQUER	1972.2	255.2	23.2	133.27	6.826
		S	145.0	57.2	15.3	21.82	1.243
		N	5	5	5	5	5
29	9	XQUER	2025.6	308.6	53.4	119.37	5.923
		S	155.3	64.7	17.2	12.32	0.323
		N	5	5	5	4	4
32	10	XQUER	1940.8	223.8	-84.7	96.27	4.869
		S	156.4	64.8	4.8	11.58	0.619
		N	5	5	5	5	5
36	11	XQUER	2054.8	337.8	114.0	118.10	5.899
		S	163.2	72.3	11.6	14.59	0.330
		N	5	5	5	5	5
XQUER FUER DEN GESAMTZEITRAUM						122.33	6.490

041

HOECHST AG UEBERSICHTSBOGEN FUTTERVERBRAUCH UND KOERPERGE CHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: VERSUCHSPRAEPARAT 1.DOSIS GESCHLECHT: WEIBCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975
DOSIS: 100.00 MG/TIER

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
1	1	XQUER	1618.2				
		S	152.0				
		N	5				
4	2	XQUER	1663.6	45.4	45.4	94.73	5.753
		S	155.2	15.9	15.9	19.86	0.938
		N	5	5	5	5	5
8	3	XQUER	1724.0	105.8	60.4	81.35	4.762
		S	162.0	19.2	14.8	19.25	0.760
		N	5	5	5	5	5
11	4	XQUER	1756.0	137.8	32.0	149.47	8.622
		S	152.8	19.4	24.9	12.15	0.776
		N	5	5	5	5	5
15	5	XQUER	1858.8	240.6	102.8	105.45	5.831
		S	160.9	61.5	45.5	24.50	1.276
		N	5	5	5	5	5
18	6	XQUER	1886.8	268.6	28.0	111.87	5.999
		S	135.7	65.6	27.6	21.35	1.167
		N	5	5	5	5	5
22	7	XQUER	1878.8	260.6	-7.9	89.25	4.769
		S	113.0	56.0	62.1	19.73	1.162
		N	5	5	5	5	5
25	8	XQUER	1916.8	298.6	38.0	98.60	5.224
		S	95.6	100.5	61.2	29.08	1.577
		N	5	5	5	5	5
29	9	XQUER	2001.8	383.6	85.0	120.15	6.129
		S	112.0	91.7	19.1	14.69	0.632
		N	5	5	5	5	5
32	10	XQUER	1937.6	319.4	-64.1	97.80	4.955
		S	115.4	64.1	33.9	15.74	0.659
		N	5	5	5	5	5
36	11	XQUER	2062.8	444.6	125.2	110.80	5.539
		S	95.3	94.2	44.6	19.00	0.898
		N	5	5	5	5	5
XQUER FUER DEN GESAMTZEITRAUM						105.95	5.758

042

HOECHST AG UEBERSICHTSBOGEN. FUTTERVERBRAUCH UND KOERPERGEWICHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: VERSUCHSPRAEPARAT 2.DOSIS GESCHLECHT: MAENNCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975
DOSIS: 100.00 MG/TIER

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
1	1	XQUER	1807.4				
		S	166.9				
		N	5				
4	2	XQUER	1846.0	38.6	38.6	112.60	6.182
		S	146.7	34.9	34.9	14.54	0.813
		N	5	5	5	5	5
8	3	XQUER	1841.8	34.4	-4.1	76.20	4.159
		S	125.5	54.5	51.2	5.94	0.518
		N	5	5	5	5	5
11	4	XQUER	1893.2	85.8	51.4	140.75	7.783
		S	161.8	40.8	45.6	6.70	0.597
		N	5	5	5	4	4
15	5	XQUER	1955.2	147.8	62.0	109.15	5.679
		S	153.1	35.8	36.6	14.98	0.723
		N	5	5	5	5	5
18	6	XQUER	1995.2	187.8	40.0	110.60	5.606
		S	156.8	29.9	27.4	13.86	0.630
		N	5	5	5	5	5
22	7	XQUER	2020.0	212.6	24.8	104.19	5.380
		S	157.7	33.6	15.2	8.93	0.557
		N	5	5	5	4	4
25	8	XQUER	2056.8	249.4	36.8	116.40	5.709
		S	143.5	42.6	16.0	15.40	0.608
		N	5	5	5	5	5
29	9	XQUER	2082.6	275.2	25.8	113.80	5.508
		S	147.3	52.5	24.0	10.29	0.505
		N	5	5	5	5	5
32	10	XQUER	2010.8	203.4	-71.7	92.53	4.503
		S	140.8	56.7	11.5	14.46	0.443
		N	5	5	5	5	5
36	11	XQUER	2095.6	288.2	84.8	110.65	5.391
		S	155.0	26.5	59.9	10.55	0.416
		N	5	5	5	5	5
XQUER FUER DEN GESAMTZEITRAUM						108.69	5.590

043

HOECHST AG UEBERSICHTSBOGEN: UTTERVERBRAUCH UND KOERPERGEW HT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: VERSUCHSPRAEPARAT 2.DOSIS GESCHLECHT: WEIBCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975
DOSIS: 100.00 MG/TIER

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
1	1	XQUER	1624.0				
		S	99.4				
		N	5				
4	2	XQUER	1686.4	62.4	62.4	119.47	7.241
		S	107.1	29.6	29.6	7.85	0.676
		N	5	5	5	5	5
8	3	XQUER	1745.0	121.0	58.6	99.95	5.876
		S	109.3	48.5	22.3	11.94	1.057
		N	5	5	5	5	5
11	4	XQUER	1798.0	174.0	53.0	178.80	10.183
		S	102.9	64.9	49.7	48.66	3.147
		N	5	5	5	5	5
15	5	XQUER	1891.2	267.2	93.2	135.70	7.414
		S	110.0	80.5	19.4	29.80	1.915
		N	5	5	5	5	5
18	6	XQUER	1940.4	316.4	49.2	146.87	7.699
		S	129.4	107.2	34.5	18.11	1.149
		N	5	5	5	5	5
22	7	XQUER	2006.0	382.0	65.6	138.25	7.047
		S	123.1	78.8	46.7	16.27	1.088
		N	5	5	5	5	5
25	8	XQUER	2051.0	427.0	45.0	138.67	6.857
		S	118.1	86.7	18.6	17.26	0.979
		N	5	5	5	5	5
29	9	XQUER	2129.2	505.2	78.2	134.19	6.396
		S	143.5	123.1	48.3	19.74	0.814
		N	5	5	5	4	4
32	10	XQUER	2076.8	452.8	-52.3	128.00	6.113
		S	148.7	128.1	12.5	21.37	1.126
		N	5	5	5	5	5
36	11	XQUER	2182.2	558.2	105.4	139.50	6.557
		S	152.7	133.8	12.2	17.81	0.756
		N	5	5	5	5	5
XQUER FUER DEN GESAMTZEITRAUM						135.94	7.138

HOECHST AG UEBERSICHTSBOGEN. FUTTERVERBRAUCH UND KOERPERGEWICHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: VERSUCHSPRAEPARAT 3.DOSIS GESCHLECHT: MAENNCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975
DOSIS: 000.10 ML/TIER

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
1	1	XQUER	1670.2				
		S	101.4				
		N	5				
4	2	XQUER	1748.4	78.2	78.2	148.27	8.694
		S	91.6	21.8	21.8	43.52	2.651
		N	5	5	5	5	5
8	3	XQUER	1764.0	93.8	15.6	119.95	6.749
		S	98.6	3.2	20.8	41.18	2.015
		N	5	5	5	5	5
11	4	XQUER	1845.6	175.4	81.6	201.33	10.949
		S	99.5	25.5	25.4	64.76	3.019
		N	5	5	5	4	4
15	5	XQUER	1880.0	209.8	34.4	132.40	7.096
		S	127.3	46.3	49.7	24.00	1.191
		N	5	5	5	5	5
18	6	XQUER	1929.2	259.0	49.2	153.60	8.068
		S	113.8	48.1	28.8	31.27	1.661
		N	5	5	5	5	5
22	7	XQUER	1961.2	291.0	32.0	128.10	6.555
		S	132.9	57.3	26.9	23.35	0.923
		N	5	5	5	5	5
25	8	XQUER	1996.0	325.8	34.8	128.75	6.505
		S	131.1	48.8	11.8	22.92	0.877
		N	5	5	5	4	4
29	9	XQUER	2025.8	355.6	29.8	118.00	5.885
		S	123.2	49.1	26.4	20.93	1.092
		N	5	5	5	5	5
32	10	XQUER	2052.0	381.8	26.2	135.80	6.651
		S	137.5	54.2	16.5	19.34	0.767
		N	5	5	5	5	5
36	11	XQUER	2055.6	385.4	3.6	123.95	6.012
		S	131.8	60.2	35.4	39.82	1.801
		N	5	5	5	5	5

045

HOECHST AG UEBERSICHTSBOGEN FUTTERVERBRAUCH UND KOERPERGE CHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: VERSUCHSPRAEPARAT 3.DOSIS GESCHLECHT: MAENNCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975
DOSIS: 000.10 ML/TIER

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
39	12	XQUER	2090.4	420.2	34.8	152.40	7.407
		S	128.1	63.6	13.4	30.51	1.710
		N	5	5	5	5	5
43	13	XQUER	2123.8	453.6	33.4	125.70	5.981
		S	108.7	67.8	33.6	15.97	0.841
		N	5	5	5	5	5
45	14	XQUER	2084.4	414.2	-39.3	119.40	5.692
		S	154.7	83.8	59.8	33.42	1.680
		N	5	5	5	5	5
50	15	XQUER	2129.6	459.4	45.2	97.84	4.608
		S	162.5	99.8	65.0	33.74	1.413
		N	5	5	5	5	5
53	16	XQUER	2177.6	507.4	48.0	117.07	5.468
		S	137.7	109.8	53.3	27.59	1.373
		N	5	5	5	5	5
57	17	XQUER	2124.8	454.6	-52.7	93.81	4.370
		S	138.1	70.7	69.7	7.39	0.148
		N	5	5	5	4	4
60	18	XQUER	2057.2	387.0	-67.5	100.27	4.807
		S	132.7	68.1	13.1	34.46	1.650
		N	5	5	5	5	5
64	19	XQUER	2129.8	459.6	72.6	118.70	5.675
		S	161.9	113.1	58.4	32.16	1.553
		N	5	5	5	5	5
XQUER FUER DEN GESAMTZEITRAUM						128.63	6.510

046

HOECHST AG UEBERSICHTSBOGEN. FUTTERVERBRAUCH UND KOERPERGEWICHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: VERSUCHSPRAEPARAT 3.DOSIS GESCHLECHT: WEIBCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975
DOSIS: 000.10 ML/TIER

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
1	1	XQUER	1571.8				
		S	92.9				
		N	5				
4	2	XQUER	1611.4	39.6	39.6	120.50	7.675
		S	92.7	22.7	22.7	46.13	2.824
		N	5	5	5	4+	4+
8	3	XQUER	1687.4	115.6	76.0	92.75	5.702
		S	84.3	23.4	23.8	31.90	1.850
		N	5	5	5	4+	4+
11	4	XQUER	1736.0	164.2	48.6	167.83	9.839
		S	86.1	45.5	46.2	80.14	4.370
		N	5	5	5	4+	4+
15	5	XQUER	1823.2	251.4	87.2	113.87	6.453
		S	78.4	20.7	42.7	19.94	0.996
		N	5	5	5	4+	4+
18	6	XQUER	1887.6	315.8	64.4	131.33	7.199
		S	79.6	45.8	37.3	26.10	1.569
		N	5	5	5	4+	4+
22	7	XQUER	1943.2	371.4	55.6	123.94	6.526
		S	74.2	32.3	33.4	27.05	1.285
		N	5	5	5	4+	4+
25	8	XQUER	1995.0	423.2	51.8	119.83	6.119
		S	64.5	64.4	37.9	27.29	1.339
		N	5	5	5	4+	4+
29	9	XQUER	2071.4	499.6	76.4	125.44	6.186
		S	58.0	83.7	37.0	16.11	0.773
		N	5	5	5	4+	4+
32	10	XQUER	2106.2	534.4	34.8	139.33	6.603
		S	106.1	108.2	48.3	54.42	2.397
		N	5	5	5	4+	4+
36	11	XQUER	2161.0	589.2	54.8	125.75	5.902
		S	73.2	95.1	46.8	24.75	1.107
		N	5	5	5	4+	4+

+Bei einem Tier war der Futterverbrauch wegen Futterauswurf nicht feststellbar.

HUECHST AG UEBERSICHTSBUGEN -UTTERVERBRAUCH UND KOERPERGEW HT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: VERSUCHSPRAEPARAT 3.DOSIS GESCHLECHT: WEIBCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975
DOSIS: 000.10 ML/TIER

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
39	12	XQUER	2138.4	566.6	-22.5	106.92	4.938
		S	131.8	93.4	90.5	42.66	1.802
		N	5	5	5	4	4
43	13	XQUER	2174.8	603.0	36.4	101.00	4.651
		S	150.6	107.1	43.1	30.31	1.081
		N	5	5	5	4	4
45	14	XQUER	2191.5	613.7	-31.4	106.17	4.851
		S	77.5	36.4	65.3	1.26	0.233
		N	4	4	4	3	3
50	15	XQUER	2112.0	534.2	-79.4	62.27	2.936
		S	191.6	106.0	117.7	11.66	0.413
		N	4	4	4	3	3
53	16	XQUER	2183.5	605.7	71.5	114.56	5.420
		S	245.5	158.2	74.3	33.92	1.089
		N	4	4	4	3	3
57	17	XQUER	2212.0	634.2	28.5	86.58	4.067
		S	187.2	82.6	98.2	21.60	1.091
		N	4	4	4	3	3
60	18	XQUER	2164.5	586.7	-47.4	100.50	4.652
		S	138.3	57.2	66.5	22.85	1.369
		N	4	4	4	4	4
64	19	XQUER	2257.2	679.5	92.7	120.42	5.522
		S	101.0	63.4	46.0	20.70	1.098
		N	4	4	4	3	3
XQUER FUER DEN GESAMTZEITRAUM						114.39	5.847

048

HOECHST AG UEBERSICHTSBOGEN: FUTTERVERBRAUCH UND KOERPERGEWICHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: VERSUCHSPRAEPARAT 4.DOSIS GESCHLECHT: MAENNCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975
DOSIS: 000.10 ML/TIER

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
1	1	XQUER	1717.4				
		S	76.7				
		N	5				
4	2	XQUER	1772.4	55.0	55.0	107.47	6.163
		S	82.8	22.9	22.9	6.46	0.340
		N	5	5	5	5	5
8	3	XQUER	1816.4	99.0	44.0	88.00	4.905
		S	96.3	31.2	15.4	5.02	0.169
		N	5	5	5	5	5
11	4	XQUER	1844.4	127.0	28.0	136.27	7.411
		S	124.8	54.7	31.3	24.54	1.034
		N	5	5	5	5	5
15	5	XQUER	1900.8	183.4	56.4	98.10	5.246
		S	109.0	43.3	34.9	13.17	0.688
		N	5	5	5	5	5
18	6	XQUER	1922.8	205.4	22.0	106.80	5.582
		S	123.9	51.7	19.7	9.53	0.293
		N	5	5	5	5	5
22	7	XQUER	1949.0	231.6	26.2	106.85	5.503
		S	137.5	68.7	19.3	15.32	0.539
		N	5	5	5	5	5
25	8	XQUER	1975.8	258.4	26.8	117.27	5.936
		S	153.6	84.0	17.9	22.68	0.771
		N	5	5	5	5	5
29	9	XQUER	2027.0	309.6	51.2	115.85	5.774
		S	147.4	76.5	19.5	14.02	0.318
		N	5	5	5	5	5
32	10	XQUER	2041.8	324.4	14.8	122.67	5.997
		S	170.6	101.4	26.7	23.28	0.789
		N	5	5	5	5	5
36	11	XQUER	2064.0	346.6	22.2	113.75	5.517
		S	165.6	93.7	22.2	18.89	0.572
		N	5	5	5	5	5

HUECHST AG UEBERSICHTSBOGEN: FUTTERVERBRAUCH UND KOERPERGEWICHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: VERSUCHSPRAEPARAT 4.DOSIS GESCHLECHT: MAENNCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975
DOSIS: 000.10 ML/TIER

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
39	12	XQUER	2072.4	355.0	8.4	112.17	5.439
		S	166.2	95.4	16.7	21.86	0.553
		N	5	5	5	4	4
43	13	XQUER	2101.6	384.2	29.2	115.10	5.524
		S	160.0	91.1	18.9	10.71	0.469
		N	5	5	5	5	5
45	14	XQUER	2063.6	346.2	-37.9	104.60	4.992
		S	189.2	118.7	31.9	19.19	0.506
		N	5	5	5	5	5
50	15	XQUER	2090.8	373.4	27.2	94.20	4.504
		S	184.9	114.1	20.4	23.50	0.889
		N	5	5	5	5	5
53	16	XQUER	2115.6	398.2	24.8	113.27	5.429
		S	170.3	103.9	30.4	17.21	1.069
		N	5	5	5	5	5
57	17	XQUER	2114.4	397.0	-1.1	90.50	4.300
		S	161.7	93.2	14.0	3.52	0.372
		N	5	5	5	5	5
60	18	XQUER	2067.2	349.8	-47.1	82.87	3.967
		S	155.3	89.7	18.4	9.42	0.399
		N	5	5	5	5	5
64	19	XQUER	2125.2	407.8	58.0	88.05	4.223
		S	132.5	76.8	45.6	9.25	0.585
		N	5	5	5	5	5
XQUER FUER DEN GESAMTZEITRAUM						106.32	5.356

050

HOECHST AG UEBERSICHTSBOGEN: FUTTERVERBRAUCH UND KOERPERGEWICHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: VERSUCHSPRAEPARAT 4.DOSIS GESCHLECHT: WEIBCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975
DOSIS: 000.10 ML/TIER

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
1	1	XQUER	1637.8				
		S	87.6				
		N	5				
4	2	XQUER	1677.6	39.8	39.8	106.93	6.454
		S	69.1	21.3	21.3	12.55	0.723
		N	5	5	5	5	5
8	3	XQUER	1761.0	123.2	83.4	94.95	5.531
		S	70.7	23.6	14.7	23.56	1.380
		N	5	5	5	5	5
11	4	XQUER	1809.6	171.8	48.6	174.40	9.759
		S	84.9	39.3	45.6	46.41	2.558
		N	5	5	5	5	5
15	5	XQUER	1888.0	250.2	78.4	136.00	7.361
		S	98.1	64.6	65.1	23.17	1.211
		N	5	5	5	5	5
18	6	XQUER	1951.2	313.4	63.2	150.50	8.012
		S	111.1	59.4	31.0	39.08	2.480
		N	5	5	5	4	4
22	7	XQUER	2053.0	415.2	101.8	154.67	8.024
		S	109.9	70.7	19.6	15.50	1.139
		N	5	5	5	3	3
25	8	XQUER	2129.4	491.6	76.4	165.42	7.991
		S	97.9	77.0	40.0	17.36	0.769
		N	5	5	5	4	4
29	9	XQUER	2170.0	532.2	40.6	142.56	6.690
		S	128.3	108.6	36.1	5.20	0.418
		N	5	5	5	4	4
32	10	XQUER	2229.4	591.6	59.4	168.17	7.763
		S	145.3	117.4	27.9	13.29	1.190
		N	5	5	5	4	4
36	11	XQUER	2266.0	628.2	36.6	146.00	6.635
		S	99.5	67.9	73.1	29.86	1.754
		N	5	5	5	4	4

051

HOECHST AG UEBERSICHTSBOGEN FUTTERVERBRAUCH UND KOERPERGE CHT PHARMA FORSCHUNG TOXIKOLOGIE

METHODE: HT 000 . VERSUCH: 0506 VERSUCHSBEGINN: 03.02.1975 PRAEPARATNR: H726146A
TIERART: KANINCHEN APPLIKATIONSWEG: EPICUTAN
KOLLEKTIV: VERSUCHSPRAEPARAT 4.DOSIS GESCHLECHT: WEIBCHEN
VERSUCHSBEGINN DES KOLLEKTIVS: 11.02.1975
DOSIS: 000.10 ML/TIER

VERS. TAG	UNTER-SUCHUNG		TIERGEWICHT IN G ABSOLUT	GEGEN AUSGANGSW.	GEGEN VORWERT	FUTTERVERBRAUCH PRO TAG IN GRAMM	PRO TAG IN % KOERPERGEW.
39	12	XQUER	2274.8	637.0	8.8	134.50	5.879
		S	151.4	136.7	87.4	16.92	0.558
		N	5	5	5	4	4
43	13	XQUER	2333.2	695.4	58.4	151.70	6.575
		S	134.5	96.7	71.5	28.19	1.078
		N	5	5	5	5	5
45	14	XQUER	2326.6	688.8	-6.5	161.60	6.892
		S	140.1	105.1	17.5	53.14	2.005
		N	5	5	5	5	5
50	15	XQUER	2352.8	715.0	26.2	121.45	5.182
		S	199.8	162.5	65.9	18.90	0.437
		N	5	5	5	4	4
53	16	XQUER	2411.8	774.0	59.0	155.27	6.629
		S	155.6	120.4	61.5	51.62	2.560
		N	5	5	5	5	5
57	17	XQUER	2437.2	799.4	25.4	116.37	4.835
		S	168.8	124.1	28.8	16.42	0.615
		N	5	5	5	4	4
60	18	XQUER	2377.6	739.8	-59.5	106.83	4.538
		S	147.3	121.4	41.8	28.32	1.537
		N	5	5	5	4	4
64	19	XQUER	2450.0	812.2	72.4	135.87	5.739
		S	152.1	131.0	30.2	29.16	1.697
		N	5	5	5	4	4
XQUER FUER DEN GESAMTZEITRAUM						140.18	6.694

052

Zusammenfassung: Haematologische Parameter, Anfangswerte

Kaninchen, männlich

		Ery	HK	Hb	MCV	MCH	MCHC	Reticulocyten	Thrombocyten	Leukocyten
Kontrolle	n	5	5	5	5	5	5	5	5	5
	x̄	5,99	-	12,84	-	21,45	-	28,200	594,40	7,9
	s	0,377		0,770		0,445		5,805	133,208	1,000
Shampoo A	n	5	5	5	5	5	5	5	5	5
	x̄	6,26	-	12,40	-	19,82	-	33,80	603,4	8,98
	s	0,458		0,987		0,901		8,927	145,837	1,182
Shampoo O	n	5	5	5	5	5	5	5	5	5
	x̄	6,73	-	13,96	-	20,74	-	32,00	549,6	8,42
	s	0,429		1,137		0,556		5,874	116,813	2,388
Haarwasser A	n	5	5	5	5	5	5	5	5	5
	x̄	6,52	-	13,10	-	20,05	-	24,60	633,40	9,76
	s	0,446		1,235		0,611		6,504	156,414	2,569
Haarwasser O	n	5	5	5	5	5	5	5	5	5
	x̄	6,85	-	14,02	-	20,53	-	24,80	631,00	7,62
	s	0,878		1,482		0,549		17,035	147,582	1,555

Zusammenfassung: Haematologische Parameter, Anfangswerte

Kaninchen, männlich

		BA	EO	ST	SEG	Lyphocyten	Monocyten
Kontrolle	n	5	5	5	5	5	5
	Median	0	0	0	31	66	0
	Spannweite	0 - 2	0 - 1	0 - 0	18 - 45	55 - 82	0 - 1
Shampoo A	n	5	5	5	5	5	5
	Median	0	0	0	33	66	0
	Spannweite	0 - 2	0 - 2	0 - 1	19 - 39	59 - 79	0 - 1
Shampoo O	n	5	5	5	5	5	5
	Median	1	0	0	41	57	0
	Spannweite	0 - 2	0 - 0	0 - 0	29 - 45	54 - 70	0 - 1
Haarwasser A	n	5	5	5	5	5	5
	Median	3	0	0	32	65	0
	Spannweite	1 - 5	0 - 1	0 - 1	29 - 54	45 - 66	0 - 1
Haarwasser O	n	5	5	5	5	5	5
	Median	1	0	0	56	44	0
	Spannweite	0 - 2	0 - 0	0 - 0	38 - 70	28 - 61	0 - 0

Zusammenfassung: Haematologische Parameter, Anfangswerte

Kaninchen, weiblich

		Ery	Hk	Hb	MCV	MCH	MCHC	Reticolocyten	Thrombocyten	Leukocyten
Kontrolle	n	5	5	5	5	5	5	5	5	5
	$\bar{x}$	6,1	-	12,58	-	20,66	-	28,20	494,4	6,36
	s	0,444		0,705		0,444		6,458	130,679	0,780
Shampoo A	n	5	5	5	5	5	5	5	5	5
	$\bar{x}$	5,71	-	12,42	-	21,81	-	37,80	437	6,18
	s	0,430		0,409		1,336		17,035	80,256	1,690
Shampoo O	n	5	5	5	5	5	5	4	5	5
	$\bar{x}$	6,31	-	13,26	-	21,05	-	36,75	563,6	6,02
	s	0,354		0,550		0,903		3,202	180,834	0,881
Haarwasser A	n	5	5	5	5	5	5	5	5	5
	$\bar{x}$	6,64	-	13,52	-	20,43	-	20,8	418,4	5,96
	s	0,494		0,973		1,718		4,970	88,022	1,033
Haarwasser O	n	5	5	5	5	5	5	5	5	5
	$\bar{x}$	6,646	-	13,98	-	21,03	-	23,60	392,00	5,04
	s	0,204		0,610		0,444		3,975	76,521	0,647

Zusammenfassung: Haematologische Parameter, Anfangswerte

Kaninchen, weiblich

		BA	EO	ST	SEG	Lymphocyten	Monocyten
Kontrolle	n	5	5	5	5	5	5
	Median	0	0	0	31	66	0
	Spannweite	0 - 2	0 - 1	0 - 0	18 - 45	55 - 82	0 - 1
Shampoo A	n	5	5	5	5	5	5
	Median	1	0	0	35	63	0
	Spannweite	0 - 3	0 - 0	0 - 1	21 - 45	55 - 76	0 - 0
Shampoo O	n	5	5	5	5	5	5
	Median	2	0	0	35	61	0
	Spannweite	0 - 3	0 - 1	0 - 1	22 - 40	57 - 77	0 - 0
Haarwasser A	n	5	5	5	5	5	5
	Median	2	0	0	37	61	0
	Spannweite	0 - 5	0 - 0	0 - 0	12 - 67	28 - 85	0 - 0
Haarwasser	n	5	5	5	5	5	5
	Median	2	0	0	43	54	0
	Spannweite	0 - 3	0 - 0	0 - 0	39 - 55	45 - 60	0 - 0

Zusammenfassung: Haematologische Parameter, 4. Versuchswoche

Kaninchen, männlich

		Ery	HK	Hb	MCV	MCH	MCHC	Reticulocyten	Thrombocyten	Leucocyten
Kontrolle	n	5	5	5	5	5	5	5	5	5
	$\bar{x}$	5,98	41,80	13,78	69,86	23,04	32,99	36,80	537,8	7,88
	s	0,180	1,924	0,432	1,737	0,509	0,637	11,122	102,334	1,555
Shampoo A	n	5	5	5	5	5	5	5	5	5
	$\bar{x}$	6,44	41,8	13,86	64,93	21,53	33,18	49,40	386,2	7,34
	s	0,158	1,643	0,365	2,653	6,764	0,892	20,513	46,451	2,007
Shampoo O	n	5	5	5	5	5	5	5	5	5
	$\bar{x}$	6,69	43,40	14,38	65,10	21,56	33,17	40,20	391,8	8,18
	s	0,556	3,435	0,968	4,657	0,962	0,985	8,044	87,107	0,998

Zusammenfassung: Haematologische Parameter, 4. Versuchswoche

Kaninchen, männlich

		BA	EO	ST	SEG	Lymphocyten	Monocyten
Kontrolle	M	5	5	5	5	5	5
	Median	1	0	0	29	71	0
	Spannweite	0 - 1	0 - 1	0 - 1	8 - 38	58 - 81	0 - 1
Shampoo A	M	5	5	5	5	5	5
	Median	3	0	0	29	69	0
	Spannweite	1 - 5	0 - 1	0 - 0	21 - 41	53 - 75	0 - 1
Shampoo 0	M	5	5	5	5	5	5
	Median	1	0	0	26	69	0
	Spannweite	0 - 6	0 - 0	0 - 1	20 - 35	64 - 79	0 - 4

Zusammenfassung: Haematologische Parameter, 4. Versuchswoche

Kaninchen, weiblich

		Ery	Hk	Hb	MCV	MCH	MCHC	Retikolocyten	Thrombocyten	Leukocyten
Kontrolle	n	5	5	5	5	5	5	5	5	5
	$\bar{x}$	6,51	44,40	14,46	68,22	22,21	32,56	30,00	401,20	6,82
	s	0,425	2,302	0,885	1,572	0,506	0,549	9,301	78,133	1,628
Shampoo A	n	5	5	5	5	5	5	5	5	5
	$\bar{x}$	5,97	39,2	13,26	65,75	22,23	33,86	27,40	381,60	6,20
	s	0,564	4,025	1,246	5,604	1,416	0,969	11,149	127,361	1,306
Shampoo O	n	5	5	5	5	5	5	5	5	5
	$\bar{x}$	6,33	43,80	14,42	69,21	22,79	32,96	27,00	473,20	5,98
	s	0,286	2,950	0,709	2,677	0,287	1,022	8,062	94,224	0,991

Zusammenfassung: Haematologische Parameter, 4. Versuchswoche

Kaninchen, weiblich

		BA	EO	ST	SEG	Lymphocyten	Monocyten
Kontrolle	n	5	5	5	5	5	5
	Median	2	1	0	31	65	0
	Spannweite	0 - 3	0 - 1	0 - 0	25 - 39	58 - 72	0 - 0
Shampoo A	N	5	5	5	5	5	5
	Median	2	0	0	25	67	0
	Spannweite	1 - 3	0 - 1	0 - 0	22 - 39	59 - 74	0 - 1
Shamppo O	n	5	5	5	5	5	5
	Median	1	0	0	25	70	0
	Spannweite	0 - 6	0 - 2	0 - 1	24 - 41	56 - 75	0 - 0

Zusammenfassung: Haematologische Parameter, 8. Versuchswoche

Kaninchen, männlich

			Ery	HK	Hb	MCV	MCH	MCHC	Reticolocyten	Thrombocyten	Leukocyten
Kontrolle	Tier-Nr.	3	6,58	51	16,2	77,51	24,62	31,76	16	366	7,0
		4	6,48	50	16,3	77,16	25,15	32,60	26	355	7,7
		5	5,71	43	14,4	75,31	25,22	33,49	20	408	6,2
Haarwasser A	n		5	5	5	5	5	5	5	5	5
	x		6,20	46,40	15,08	74,84	24,318	32,5	22,0	304,8	6,04
	s		0,201	2,408	0,904	2,081	0,850	0,977	6,124	68,816	1,440
Haarwasser O	n		5	5	5	5	5	5	5	5	5
	x		5,28	42,6	14,22	81,026	27,05	33,386	20,00	289,6	7,30
	s		0,493	1,817	0,807	4,271	1,782	1,368	5,292	22,512	1,568

Zusammenfassung: Haematologische Parameter, 8. Versuchswoche

Kaninchen, männlich

		BA	FO	ST	SEG	Lyphocyten	Monocyten
Kontrolle	Tier Nr. 3	1	0	0	17	82	0
	4	1	0	0	32	67	0
	5	0	0	0	39	61	0
Haarwasser A	Median	2	0	0	29	70	0
	Spann-weite	0 - 3	0 - 1	0 - 0	19 - 30	66 - 78	0 - 1
Haarwasser O	Median	1	0	0	34	66	0
	Spann-weite	0 - 3	0 - 1	0 - 0	17 - 43	54 - 83	0 - 0

Zusammenfassung: Haematologische Parameter, 8. Versuchswoche

Kaninchen, weiblich

			Ery	Hk	Hb	MCV	MCH	MCHC	Retikulocyten	Thrombocyten	Leukocyten
Kontrolle	Tier-	9	6,21	47	15,1	75,68	24,32	32,13	27	308	7,0
	Nr.	10	5,42	41	13,5	75,65	24,91	32,93	18	324	4,7
Haarwasser A	n		4	4	4	4	4	4	4	4	4
	$\bar{x}$		6,04	45,0	14,68	74,57	24,31	32,60	26,00	408,00	6,68
	s		0,344	2,160	0,858	1,638	0,339	0,410	8,910	141,214	1,410
Haarwasser O	n		5	5	5	5	5	5	5	5	5
	$\bar{x}$		5,32	42,8	14,36	81,23	27,22	33,64	23,60	315,6	5,68
	s		0,498	3,421	0,727	12,220	3,450	1,623	7,956	102,984	0,726

Zusammenfassung: Haematologische Parameter, 8. Versuchswoche

Kaninchen, weiblich

		BA	EO	ST	SEG	Lymphocyten	Monocyten
Kontrolle Tier Nr.	9	0	0	0	36	64	0
	10	1	1	0	23	75	0
Haarwasser A	n	4	4	4	4	4	4
	Median	2	0	0	34,5	62,5	0
	Spannweite	1 - 3	0 - 1	0 - 0	23 - 47	52 - 66	0 - 0
Haarwasser O	n	5	5	5	5	5	5
	Median	2	0	0	27	71	0
	Spannweite	1 - 4	0 - 2	0 - 0	23 - 42	56 - 73	0 - 0

HAEMATOLOGIE MIT KANINCHEN

KONTROLLE T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0 - WOCHE 0
KONTROLLE T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0 - WEEK 0

NR. NO.	ERYTHRO-ZYTEN ERYTHRO-CYTES	HAEMATO-KRIT HAEMATO-CRIT	HAEMO-GLOBIN	MCH	RETICU-LOZYTEN RETICU-LOCYTES	THROMBO-ZYTEN PLATE-LETS	BLUTSENKUNG ESR 30/60/120
				MAENNLICH - MALE			
1	5.53		12.0	21.70	31	614	2/ 3/ 17
2	6.13		13.3	21.70	19	493	3/ 6/ 30
3	6.12		13.4	21.90	33	442	2/ 3/ 16
4	6.47		13.5	20.87	32	642	4/12/ 36
5	5.69		12.0	21.09	26	781	2/ 2/ 12
				WEIBLICH - FEMALE			
6	6.07		12.5	20.59	36	473	3/ 8/ 31
7	6.13		12.4	20.23	21	500	4/ 6/ 21
8	5.67		12.1	21.34	25	505	2/ 2/ 19
9	6.82		13.8	20.23	25	313	2/ 2/ 12
10	5.81		12.1	20.83	34	681	2/ 2/ 12

HAEMATOLOGIE MIT KANINCHEN

KONTROLLE T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0 - WOCHE 0
KONTROLLE T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0 - WEEK 0

NR. NO.	LEUKO ZYTEN LEUCO CYTES	BASO- PHILE BASO- PHILS	EOSINO -PHILE EOSINO -PHILS	STAB- KERN. BAND CELLS	SEGMENT KERNIGE SEGMENT. CELLS	LYMPHO -ZYTEN LYMPHO -CYTES	MONO- ZYTEN MONO- CYTES	BA %	EO %	ST % BC	SEG %	LYM %	MO %	
1	9.3	0	0	0	4180	5110	0	0	0	0	45	55	0	
2	7.0	140	0	0	2030	4830	0	2	0	0	29	69	0	
3	7.4	0	0	0	1330	6070	0	0	0	0	18	82	0	
4	8.6	0	90	0	2840	5680	0	0	1	0	33	66	0	
5	7.2	140	70	0	2230	4680	70	2	1	0	31	65	1	
WEIBLICH - FEMALE														
6	7.7	310	0	0	1850	5540	0	4	0	0	24	72	0	
7	6.0	60	0	60	2340	3540	0	1	0	1	39	59	0	
8	5.7	0	60	0	2560	3080	0	0	1	0	45	54	0	
9	6.1	0	0	0	2440	3050	0	0	0	0	40	50	0	90 %
10	6.3	0	60	0	1760	4470	0	0	1	0	28	71	0	

ANFANGSWERTE H 726146 A SHAMPOO MIT WIRKSTOFF

HAEMATOLOGIE MIT KANINCHEN

SHAMPOO A T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 0
SHAMPOO A T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 0

NR. NO.	ERYTHRO -ZYTEN ERYTHRO -CYTES	HAEMATO -KRIT HAEMATO -CRIT	HAEMO-GLOBIN	MCH	RETICU-LOZYTEN RETICU-LOCYTES	THROMBO -ZYTEN PLATE-LETS	BLUTSENKUNG ESR 30/60/120
				MAENNLICH - MALE			
11	6.60		13.5	20.45	25	371	2/ 2/ 11
12	5.99		11.1	18.53	45	759	3/10/ 36
13	5.67		11.8	20.81	41	603	12/24/ 53
14	6.81		13.2	19.38	32	598	1/ 3/ 11
15	6.22		12.4	19.94	26	686	1/ 2/ 12
				WEIBLICH - FEMALE			
16	5.58		12.6	22.58	28	313	1/ 2/ 12
17	5.09		12.1	23.77	68	446	2/ 2/ 7
18	5.66		11.5	21.02	29	442	2/ 2/ 9
19	6.13		12.6	20.55	30	538	1/ 2/ 6
20	6.11		12.9	21.11	34	446	2/ 3/ 16

ANFANGSWERTE H 726146 A SHAMPOO MIT WIRKSTOFF

HAEMATOLOGIE MIT KANINCHEN

SHAMPOO A T.D. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 0
SHAMPOO A T.D. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 0

NR. NO.	LEUKO ZYTEN LEUCO CYTES	BASO- PHILE BASO- PHILS	EOSINO -PHILE EOSINO -PHILS	STAB- KERN. BAND CELLS	SEGMENT KERNIGE SEGMENT. CELLS	LYMPHO -ZYTEN LYMPHO -CYTES	MONO- ZYTEN MONO- CYTES	BA %	EO %	ST % BC	SEG %	LYM %	MO %
11	9.3	0	0	0	3070	6230	0	0	0	0	33	67	0
12	8.9	0	90	90	3470	5250	0	0	1	1	39	59	0
13	10.5	210	0	0	3260	6530	110	2	0	0	31	66	1
14	9.0	180	0	0	1710	7110	0	2	0	0	19	79	0
15	7.2	0	140	70	2660	4250	70	0	2	1	37	59	1
						WEIBLICH - FEMALE							
16	4.1	40	0	40	1430	2580	0	1	0	1	35	63	0
17	5.8	0	0	0	2150	3650	0	0	0	0	37	63	0
18	5.9	180	0	0	1240	4480	0	3	0	0	21	76	0
19	6.3	60	0	0	1700	4540	0	1	0	0	27	72	0
20	8.8	0	0	0	3960	4840	0	0	0	0	45	55	0

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ANFANGSWERTE H 726146 A SHAMPOO OHNE WIRKSTOFF

HAEMATOLOGIE MIT KANINCHEN

Shampoo Null T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 0
Shampoo Null T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 0

NR. NO.	ERYTHRO-ZYTEN ERYTHRO-CYTES	HAEMATO-KRIT HAEMATO-CRIT	HAEMO-GLOBIN	MCH	RETICU-LOZYTEN RETICU-LOCYTES	THROMBO-ZYTEN PLATE-LETS	BLUTSENKUNG ESP 30/60/120
				MAENNLICH - MALE			
21	6.37		13.0	20.41	39	587	5/12/ 28
22	7.00		15.2	21.71	29	664	1/ 2/ 8
23	6.26		12.8	20.45	24	398	1/ 2/ 11
24	6.71		13.7	20.42	32	642	2/ 3/ 18
25	7.29		15.1	20.71	36	457	1/ 3/ 11
				WEIBLICH - FEMALE			
26	6.86		13.9	20.26	32	681	1/ 3/ 16
27	6.20		13.2	21.29	38	500	1/ 2/ 18
28	5.93		13.3	22.43		371	1/ 2/ 8
29	6.13		12.4	20.23	39	451	2/ 3/ 20
30	6.41		13.5	21.06	38	815	1/ 1/ 9

ANFANGSWERTE H 726146 A SHAMPOO OHNE WIRKSTOFF

HAEMATOLOGIE MIT KANINCHEN

Shampoo Null T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 0
Shampoo Null T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 0

NR. NO.	LEUKO ZYTEN LEUCO CYTES	BASO-PHILE BASO-PHILS	EOSINO -PHILE EOSINO -PHILS	STAB-KERN. BAND CELLS	SEGMENT KERNIGE SEGMENT. CELLS	LYMPHO -ZYTEN LYMPHO -CYTES	MONO-ZYTEN MONO-CYTES	BA %	EO %	ST % BC	SEG %	LYM %	MO %
21	7.2	140	0	0	2950	4100	0	2	0	0	41	57	0
22	7.4	0	0	0	3260	4070	70	0	0	0	44	55	1
23	12.2	120	0	0	5490	6590	0	1	0	0	45	54	0
24	6.1	60	0	0	2010	4030	0	1	0	0	33	66	0
25	9.2	0	0	0	2670	6440	90	0	0	0	29	70	1
WEIBLICH - FEMALE													
26	6.5	130	70	0	2600	3710	0	2	1	0	40	57	0
27	5.2	160	50	0	1820	3170	0	3	1	0	35	61	0
28	7.3	0	0	70	1610	5620	0	0	0	1	22	77	0
29	5.3	50	0	0	2070	3180	0	1	0	0	39	60	0
30	5.8	120	0	0	1620	4060	0	2	0	0	28	70	0

ANFANGSWERTE H 726146 A HAARWASSER MIT WIRKSTOFF

HAEMATOLOGIE MIT KANINCHEN

HAARWASSER A T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 0
HAARWASSER A T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 0

NR. NO.	ERYTHRO -ZYTEN ERYTHRO -CYTES	HAEMATO -KRIT HAEMATO -CRIT	HAEMO-GLOBIN	MCH	RETICU-LOZYTEN RETICU-LOCYTES	THROMBO -ZYTEN PLATE-LETS	BLUTSENKUNG ESR 30/60/120
				MAENNLICH - MALE			
31	5.83		11.4	19.55	19	435	6/20/ 48
32	6.33		12.3	19.43	33	576	4/ 9/ 29
33	6.76		13.7	20.27	30	598	2/ 3/ 16
34	6.92		14.5	20.95	22	855	1/ 2/ 5
35	6.78		13.6	20.06	19	703	4/ 9/ 23
				WEIBLICH - FEMALE			
36	6.70		13.1	19.55	21	484	1/ 2/ 8
37	6.11		12.8	20.95	25	467	1/ 2/ 5
38	6.16		14.0	22.73	26	467	1/ 2/ 6
39	7.01		12.7	18.12	14	403	1/ 2/ 5
40	7.21		15.0	20.80	18	271	1/ 2/ 5

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ANFANGSWERTE H 726146 A HAARWASSER MIT WIRKSTOFF

HAEMATOLOGIE MIT KANINCHEN

HAARWASSER A T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 0
HAARWASSER A T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 0

NR. NO.	LEUKO ZYTEN LEUCO CYTES	BASO-PHILE BASO-PHILS	EOSINO -PHILE EOSINO -PHILS	STAB-KERN. BAND CELLS	SEGMENT KERNIGE SEGMENT. CELLS	LYMPHO -ZYTEN LYMPHO -CYTES	MONO-ZYTEN MONO-CYTES	BA %	EO %	ST % BC	SEG %	LYM %	MO %
31	5.7	170	60	0	1650	3760	60	3	1	0	29	66	1
32	9.7	290	0	0	3100	6300	0	3	0	0	32	65	0
33	12.3	250	0	120	3940	7990	0	2	0	1	32	65	0
34	11.6	120	0	0	6260	5220	0	1	0	0	54	45	0
35	9.5	480	0	0	3420	5610	0	5	0	0	36	59	0
						WEIBLICH - FEMALE							
36	5.6	0	0	0	3020	3140	0	0	0	0	54	56	0
37	6.7	200	0	0	800	5690	0	3	0	0	12	85	0
38	6.7	330	0	0	4490	1880	0	5	0	0	67	28	0
39	6.5	130	0	0	2410	3970	0	2	0	0	37	61	0
40	4.3	90	0	0	1550	2670	0	2	0	0	36	62	0

072

ANFANGSWERTE H 726146 A HAARWASSER OHNE WIRKSTOFF

HAEMATOLOGIE MIT KANINCHEN

HAARWASSER O T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 0
HAARWASSER O T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 0

NR. NO.	ERYTHRO-ZYTEN ERYTHRO-CYTES	HAEMATO-KRIT HAEMATO-CRIT	HAEMO-GLOBIN	MCH	RETICU-LOZYTEN RETICU-LOCYTES	THROMBO-ZYTEN PLATE-LETS	BLUTSENKUNG ESR 30/60/120
				MAENNLICH - MALE			
41	6.01		12.4	20.63	55	793	2/ 3/ 12
42	7.07		14.3	20.23	16	592	1/ 3/ 20
43	6.03		12.9	21.39	17	653	2/ 3/ 9
44	8.13		16.2	19.93	21	714	1/ 2/ 4
45	6.99		14.3	20.46	15	403	1/ 2/ 11
				WEIBLICH - FEMALE			
46	6.59		13.5	20.49	27	387	1/ 1/ 4
47	6.52		13.5	20.71	25	462	1/ 1/ 6
48	6.50		13.7	21.08	26	442	1/ 1/ 5
49	7.00		14.9	21.29	23	403	1/ 1/ 5
50	6.62		14.3	21.60	17	266	2/ 2/ 9

ANFANGSWERTE H 726146 A HAARWASSER OHNE WIRKSTOFF

HAEMATOLOGIE MIT KANINCHEN

HAARWASSER O T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 0
HAARWASSER O T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 0

NR. NO.	LEUKO ZYTEN LEUCO CYTES	BASO- PHILE BASO- PHILS	EOSINO -PHILE EOSINO -PHILS	STAB- KERN. BAND CELLS	SEGMENT KERNIGE SEGMENT. CELLS	LYMPHO -ZYTEN LYMPHO -CYTES	MONO- ZYTEN MONO- CYTES	BA %	EO %	ST % BC	SEG %	LYM %	MO %
41	8.5	170	0	0	3490	4850	0	2	0	0	41	57	0
42	7.3	70	0	0	2770	4450	0	1	0	0	38	61	0
43	9.7	190	0	0	6790	2720	0	2	0	0	70	28	0
44	5.6	60	0	0	3300	2240	0	1	0	0	59	40	0
45	7.0	0	0	0	3920	3080	0	0	0	0	56	44	0
						WEIBLICH - FEMALE							
46	4.7	90	0	0	2020	2580	0	2	0	0	43	55	0
47	4.8	50	0	0	1870	2880	0	1	0	0	39	60	0
48	5.9	180	0	0	2540	3190	0	3	0	0	43	54	0
49	5.5	170	0	0	2480	2860	0	3	0	0	45	52	0
50	4.3	0	0	0	2360	1930	0	0	0	0	55	45	0

ENDWERTE SHAMPOO

HAEMATOLOGIE MIT KANINCHEN

KONTROLLE T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0 - WOCHE 4
KONTROLLE T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0 - WEEK 4

NR. NO.	ERYTHRO-ZYTEN ERYTHRO-CYTES	HAEMATO-KRIT HAEMATO-CRIT	HAEMO-GLOBIN	MCV	MCH	MCHC	RETICU-LOZYTEN RETICU-LOCYTES	THROMBO-ZYTEN PLATE-LETS	BLUTSENKUNG ESR 30/60/120
					MAENNLICH - MALE				
1	6.15	42	13.7	68.29	22.28	32.62	40	686	1/ 1/ 5
2	5.93	41	13.5	69.14	22.77	32.93	35	408	1/ 2/ 6
3	6.01	43	14.0	71.55	23.29	32.56	30	532	1/ 1/ 7
4	6.12	44	14.4	71.90	23.53	32.73	25	493	1/ 1/ 5
5	5.70	39	13.3	68.42	23.33	34.10	54	570	1/ 2/ 9
					WEIBLICH - FEMALE				
6	6.61	44	14.2	66.57	21.48	32.27	36	334	2/ 2/ 7
7	6.89	46	15.4	66.76	22.35	33.48	16	505	1/ 1/ 5
8	6.42	44	14.1	68.54	21.96	32.05	35	313	1/ 1/ 4
9	6.82	47	15.3	68.91	22.43	32.55	25	430	1/ 1/ 4
10	5.83	41	13.3	70.33	22.81	32.44	38	424	1/ 1/ 4

ENDWERTE SHAMPOO

HAEMATOLOGIE MIT KANINCHEN

KONTROLLE T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0 - WOCHE 4
KONTROLLE T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0 - WEEK 4

NR. NO.	LEUKO ZYTEN LEUCO CYTES	BASO-PHILE BASO-PHILS	EOSINO -PHILE EOSINO -PHILS	STAB-KERN. BAND CELLS	SEGMENT KERNIGE SEGMENT. CELLS	LYMPHO -ZYTEN LYMPHO -CYTES	MONO-ZYTEN MONO-CYTES	BA %	EO %	ST % BC	SEG %
1	9.8	100	100	100	3720	5680	100	1	1	1	38
2	5.8	60	0	0	1910	3830	0	1	0	0	33
3	8.3	0	0	0	1910	6390	0	0	0	0	23
4	8.6	0	0	0	2490	6110	0	0	0	0	29
5	6.9	70	0	0	1240	5590	0	1	0	0	18
WEIBLICH - FEMALE											
6	6.2	0	0	0	1920	4280	0	0	0	0	31
7	7.0	140	70	0	1750	5040	0	2	1	0	25
8	6.2	190	60	0	1920	4030	0	3	1	0	31
9	9.5	290	0	0	3710	5510	0	3	0	0	39
10	5.2	100	50	0	1770	3280	0	2	1	0	34

ENDWERTE SHAMPOO A

HAEMATOLOGIE MIT KANINCHEN

H 72 6146 A T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 4
H 72 6146 A T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 4

NR. NO.	ERYTHRO -ZYTEN ERYTHRO -CYTES	HAEMATO -KRIT HAEMATO -CRIT	HAEMO-GLOBIN	MCV	MCH	MCHC	RETICU-LOZYTEN RETICU-LOCYTES	THROMBO -ZYTEN PLATE-LETS	BL 3
					MAENNLICH - MALE				
11	6.57	43	13.8	65.45	21.00	32.09	36	371	
12	6.43	39	13.3	60.65	20.68	34.10	48	345	
13	6.46	42	14.3	65.02	22.14	34.05	42	345	
14	6.56	43	14.0	65.55	21.34	32.56	85	424	
15	6.18	42	13.9	67.96	22.49	33.10	36	446	
					WEIBLICH - FEMALE				
16	6.04	43	14.4	71.19	23.84	33.49	15	261	
17	5.52	40	13.0	72.46	23.55	32.50	41	281	
18	5.77	35	11.9	60.66	20.62	34.00	34	403	
19	6.92	43	14.7	62.14	21.24	34.19	17	581	
20	5.62	35	12.3	62.28	21.89	35.14	30	382	

ENDWERTE SHAMPOO A

HAEMATOLOGIE MIT KANINCHEN

H 72 6146 A T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 4
H 72 6146 A T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 4

NR. NO.	LEUKO ZYTEN LEUCO CYTES	BASO- PHILE BASO- PHILS	EOSINO -PHILE EOSINO -PHILS	STAB- KERN. BAND CELLS	SEGMENT KERNIGE SEGMENT. CELLS	LYMPHO -ZYTEN LYMPHO -CYTES	MONO- ZYTEN MONO- CYTES	BA %	EO %	ST % BC	SEG %
11	7.2	70	0	0	1870	5260	0	1	0	0	26
12	5.3	160	0	0	2170	2970	0	3	0	0	41
13	6.2	310	60	0	2480	3290	60	5	1	0	40
14	7.4	220	70	0	1550	5550	0	3	1	0	21
15	10.6	210	0	0	3070	7310	0	2	0	0	29
						WEIBLICH - FEMALE					
16	7.6	230	80	0	1670	5620	0	3	1	0	22
17	6.6	70	0	0	2110	4420	0	1	0	0	32
18	7.1	140	0	0	1770	5180	0	2	0	0	25
19	5.2	100	50	0	1510	3480	50	2	1	0	29
20	4.5	90	0	0	1760	2660	0	2	0	0	39

ENDWERTE Shampoo Null

HAEMATOLOGIE MIT KANINCHEN

H 726146 A T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 4
H 726146 A T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 4

NR. NO.	ERYTHRO-ZYTEN ERYTHRO-CYTES	HAEMATO-KRIT HAEMATO-CRIT	HAEMO-GLOBIN	MCV	MCH	MCHC	RETICU-LOZYTEN RETICU-LOCYTES	THROMBO-ZYTEN PLATE-LETS	BL ... 3
					MAENNLICH - MALE				
21	6.93	41	14.0	59.16	20.20	34.15	44	329	
22	6.88	48	15.3	69.77	22.24	31.87	29	505	
23	5.73	40	13.0	69.81	22.69	32.50	49	324	
24	6.72	42	14.3	62.50	21.28	34.05	44	467	
25	7.16	46	15.3	64.25	21.37	33.26	35	334	
					WEIBLICH - FEMALE				
26	6.07	41	13.7	67.55	22.57	33.41	18	614	
27	6.41	42	14.4	65.52	22.46	34.29	22	403	
28	5.99	42	13.8	70.12	23.04	32.86	35	403	
29	6.66	47	15.4	70.57	23.12	32.77	36	419	
30	6.50	47	14.8	72.31	22.77	31.49	24	527	

FNDWERTE Shampoo Null

HAEMATOLOGIE MIT KANINCHEN

H 726146 A T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 4
H 726146 A T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 4

NR. NO.	LEUKO ZYTEN LEUCO CYTES	BASO- PHILE BASO- PHILS	EOSINO -PHILE EOSINO -PHILS	STAB- KERN. BAND CELLS	SEGMENT KERNIGE SEGMENT. CELLS	LYMPHO -ZYTEN LYMPHO -CYTES	MONO- ZYTEN MONO- CYTES	BA %	EO %	ST % BC	SEG %
21	7.2	70	0	0	1440	5690	0	1	0	0	20
22	8.6	340	0	0	2240	5680	340	4	0	0	26
23	9.7	0	0	100	3390	6210	0	0	0	1	35
24	7.9	0	0	0	2290	5610	0	0	0	0	29
25	7.5	450	0	0	1800	5180	80	6	0	0	24
						WEIBLICH - FEMALE					
26	6.6	70	70	0	1650	4820	0	1	1	0	25
27	5.6	60	0	0	1340	4200	0	1	0	0	24
28	7.2	0	140	70	2950	4030	0	0	2	1	41
29	5.9	240	0	0	1770	3890	0	4	0	0	30
30	4.6	280	0	0	1100	3220	0	6	0	0	24

ENDWERTE HAARWASSER

HAEMATOLOGIE MIT KANINCHEN

KONTROLLE T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0 - WOCHE 8
KONTROLLE T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0 - WEEK 8

NR. NO.	ERYTHRO -ZYTEN ERYTHRO -CYTES	HAEMATO -KRIT HAEMATO -CRIT	HAEMO- GLOBIN	MCV	MCH	MCHC	RETICU- LOZYTEN RETICU- LOCYTES	THROMBO -ZYTEN PLATE- LETS	BLUTS ES 30/6
					MAENNLICH - MALE				
3	6.58	51	16.2	77.51	24.62	31.76	16	366	2/
4	6.48	50	16.3	77.16	25.15	32.60	26	355	1/
5	5.71	43	14.4	75.31	25.22	33.49	20	408	1/
					WEIBLICH - FEMALE				
9	6.21	47	15.1	75.68	24.32	32.13	27	308	1/
10	5.42	41	13.5	75.65	24.91	32.93	18	324	2/

ENDWERTE HAARWASSER

HAEMATOLOGIE MIT KANINCHEN

KONTROLLE T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0 - WOCHE 8
KONTROLLE T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0 - WEEK 8

NR. NO.	LEUKO ZYTEN LEUCO CYTES	BASO- PHILE BASO- PHILS	EOSINO -PHILE EOSINO -PHILS	STAB- KERN. BAND CELLS	SEGMENT KERNIGE SEGMENT. CELLS	LYMPHO -ZYTEN LYMPHO -CYTES	MONO- ZYTEN MONO- CYTES	BA %	EO %	ST % BC	SEG %
3	7.0	70	0	0	1190	5740	0	1	0	0	17
4	7.7	80	0	0	2460	5160	0	1	0	0	32
5	6.2	0	0	0	2420	3780	0	0	0	0	39
WEIBLICH - FEMALE											
9	7.0	0	0	0	2520	4480	0	0	0	0	36
10	4.7	50	50	0	1080	3520	0	1	1	0	23

ENDWERTE HAARWASSER A

HAEMATOLOGIE MIT KANINCHEN

H 72 6146 A T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 8
H 72 6146 A T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 8

NR. NO.	ERYTHRO -ZYTEN ERYTHRO -CYTES	HAEMATO -KRIT HAEMATC -CRIT	HAEMO-GLOBIN	MCV	MCH	MCHC	RETICU-LOZYTEN RETICU-LOCYTES	THROMBO -ZYTEN PLATE-LETS	BLUTSE ESR 30/60
					MAENNLICH - MALE				
31	6.00	43	13.8	71.67	23.00	32.09	30	203	1/ 1
32	6.23	48	15.3	77.05	24.56	31.87	13	276	1/ 2
33	6.07	45	15.2	74.14	25.04	33.78	22	318	1/ 2
34	6.52	49	16.3	75.15	25.00	33.27	21	345	1/ 2
35	6.17	47	14.8	76.18	23.99	31.49	24	382	1/ 2
					WEIBLICH - FEMALE				
36	5.87	45	14.5	76.66	24.70	32.22	31	614	1/ 1
38	6.03	44	14.4	72.97	23.88	32.73	36	382	1/ 2
39	5.73	43	13.9	75.04	24.26	32.33	19	334	1/ 2
40	6.52	48	15.9	73.62	24.39	33.12	18	302	1/ 1

ENDWERTE HAARWASSER A

HAEMATOLOGIE MIT KANINCHEN

H 72 6146 A T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 8
H 72 6146 A T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 8

NR. NO.	LEUKO ZYTEN LEUCO CYTES	BASO- PHILE BASO- PHILS	EOSINO -PHILE EOSINO -PHILS	STAB- KERN. BAND CELLS	SEGMENT KERNIGE SEGMENT. CELLS	LYMPHO -ZYTEN LYMPHO -CYTES	MONO- ZYTEN MONO- CYTES	BA %	EO %	ST % BC	SEG %	L
31	6.2	120	0	0	1490	4590	0	2	0	0	24	7
32	5.0	0	0	0	1500	3500	0	0	0	0	30	7
33	4.6	90	50	0	870	3590	0	2	1	0	19	7
34	6.1	180	0	0	1770	4090	60	3	0	0	29	6
35	8.3	250	80	0	2490	5480	0	3	1	0	30	6
						WEIBLICH - FEMALE						
36	8.1	80	0	0	3810	4210	0	1	0	0	47	5
38	4.8	100	0	0	1540	3170	0	2	0	0	32	6
39	7.3	150	0	0	2480	4670	0	2	0	0	34	6
40	6.5	200	70	0	2280	3970	0	3	1	0	35	6

ENDWERTE HAARWASSER 0

HAEMATOLOGIE MIT KANINCHEN

H 726146 A T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 8
H 726146 A T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 8

NR. NO.	ERYTHRO -ZYTEN ERYTHRO -CYTES	HAEMATO -KRIT HAEMATO -CRIT	HAEMO-GLOBIN	MCV	MCH	MCHC	RETICU-LOZYTEN RETICU-LOCYTES	THROMBO -ZYTEN PLATE-LETS	BLUTSENKUNG ESR 30/60/120
					MAENNLICH - MALE				
41	5.37	43	13.5	80.07	25.14	31.40	19	281	2/ 3/ 15
42	5.91	45	14.9	76.14	25.21	33.11	18	255	1/ 1/ 10
43	5.01	42	14.3	83.83	28.54	34.05	15	302	1/ 2/ 8
44	4.61	40	13.3	86.77	28.85	33.25	29	313	1/ 1/ 7
45	5.49	43	15.1	78.32	27.50	35.12	19	297	1/ 2/ 8
					WEIBLICH - FEMALE				
46	5.70	43	13.8	75.44	24.21	32.09	21	493	1/ 2/ 8
47	5.56	37	13.4	66.55	24.10	36.22	32	266	1/ 2/ 8
48	5.77	44	15.0	76.26	26.00	34.09	15	235	1/ 1/ 13
49	4.68	44	14.6	94.02	31.20	33.18	32	271	1/ 1/ 8
50	4.90	46	15.0	93.88	30.61	32.61	18	313	1/ 2/ 8

ENDWERTE HAARWASSER 0

HAEMATOLOGIE MIT KANINCHEN

H 726146 A T.O. VERSUCH MIT KANINCHEN HAEMATOLOGIE DOSIS 0.1 - WOCHE 8
H 726146 A T.O. TRIAL WITH RABBITS HAEMATOLOGY DOSE 0.1 - WEEK 8

NR. NO.	LEUKO ZYTEN LEUCO CYTES	BASO- PHILE BASO- PHILS	EOSINO -PHILE EOSINO -PHILS	STAB- KERN. BAND CELLS	SEGMENT KERNIGE SEGMENT. CELLS	LYMPHC -ZYTEN LYMPHC -CYTES	MONO- ZYTEN MONO- CYTES	BA %	EO %	ST % BC	SEG %	LYM %	MO %
41	6.9	70	0	0	2550	4280	0	1	0	0	37	62	0
42	8.7	0	0	0	1480	7220	0	0	0	0	17	83	0
43	4.9	0	0	0	1670	3230	0	0	0	0	34	66	0
44	8.7	260	0	0	3740	4700	0	3	0	0	43	54	0
45	7.3	150	70	0	2120	4960	0	2	1	0	29	68	0
WEIBLICH - FEMALE													
46	6.4	260	0	0	1980	4160	0	4	0	0	31	65	0
47	5.6	110	0	0	1510	3980	0	2	0	0	27	71	0
48	6.3	130	0	0	1450	4720	0	2	0	0	23	75	0
49	5.5	60	110	0	1320	4020	0	1	2	0	24	73	0
50	4.6	90	0	0	1930	2580	0	2	0	0	42	56	0

Klinisch-chemische Parameter, Anfangswerte

Kaninchen, männlich

		Na	K	anorg. P.	Harns.	Bilir.	Kreat.	Gluc.	Harnst.-N	Ca	Cl	SGOT	SGPT	AP
Kontrolle	n	4	4	4	4	4	5	5	5	5	5	5	5	5
	$\bar{x}$	146,0	5,68	2,16	27,00	4,50	83,0	3,20	5,28	3,46	106,2	6,4	11,2	60,4
	s	1,633	0,556	0,079	5,292	0,577	6,218	0,778	0,798	0,089	4,025	1,949	0,837	11,327
Shampoo A	n	3	3	3	3	3	3	5	5	5	5	5	5	5
	$\bar{x}$							2,86	5,54	3,10	104,4	6,00	14,20	49,40
	s							0,456	1,029	3,082	1,517	1,225	5,070	18,955
Shampoo O	n	5	5	5	5	5	5	5	5	5	5	5	5	5
	$\bar{x}$	142,00	5,28	2,00	27,20	4,300	96,6	3,72	6,92	3,24	104,4	10,80	13,00	66,40
	s	3,792	0,630	0,426	2,280	0,837	3,782	0,540	1,258	0,261	5,030	6,058	1,581	8,905
Haarwasser A	n	5	5	5	5	5	5	5	5	5	5	5	5	5
	$\bar{x}$	148,4	5,80	2,27	29,2	3,4	82,2	4,66	6,70	3,26	101,00	8,60	11,2	68,00
	s	1,673	0,707	0,221	12,696	0,418	5,495	0,451	0,400	0,297	2,646	5,595	2,950	9,925
Haarwasser O	n	5	5	5	5	5	5	5	5	5	5	5	5	5
	$\bar{x}$	149,2	5,26	2,30	32,40	4,00	70,20	4,76	6,22	3,28	100,8	9,8	14,80	54,00
	s	1,095	0,773	0,215	4,775	1,275	11,541	0,744	1,359	0,239	2,490	2,168	4,147	7,106

Klinisch-chemische Parameter, 4. Versuchswoche

Kaninchen, männlich

		Na	K	anorg. P	Harns.	Bilir.	Kreat.	Gluc.	Harnst.-N	Ca	Cl	SGOT	SGPT	AP
Kontrolle	n	5	5	5	5	5	5	5	5	5	5	5	5	5
	$\bar{x}$	150,2	6,12	2,15	36,00	3,8	85,00	6,16	6,72	3,6	100,00	10,2	14,60	50,00
	s	0,447	0,867	0,200	4,234	0,570	6,042	1,571	1,381	0,224	3,536	2,387	2,608	10,488
Shampoo A	n	5	5	5	5	5	5	5	5	5	5	4	4	4
	$\bar{x}$	148,4	5,96	2,406	40,80	3,80	104,2	6,06	6,48	3,28	104,00	10,50	12,25	50,75
	s	0,894	0,945	0,166	2,280	0,274	11,454	0,639	1,021	0,110	3,873	2,082	2,062	5,909
Shampoo O	n	5	5	5	5	5	5	5	5	5	5	5	5	5
	$\bar{x}$	149,8	6,42	2,56	35,6	4,00	98,80	7,00	6,88	3,44	101,2	11,40	13,40	51,4
	s	1,789	0,239	0,150	3,847	0,791	10,986	1,367	0,572	0,114	3,834	3,050	2,966	6,950

Klinisch-chemische Parameter, 8. Versuchswoche

Kaninchen, männlich

		Na	K	anorg. P.	Harns.	Bilir.	Kreat.	Gluc.	Harnst.-N	Ca	Cl	SGOT	SGPT	AP
Kontrolle (Tier-Nr.)	3	146	5,1	1,80	40	6,0	100	5,0	4,4	3,4	96	13	33	34
	9	144	6,5	1,88	40	6,5	102	7,5	5,1	3,9	95	8	12	28
	5	150	6,5	1,79	36	5,5	103	5,6	4,9	3,8	99	10	19	31
Haarwasser A	n	5	5	5	5	5	5	5	5	5	5	5	5	5
	$\bar{x}$	147,40	6,22	2,07	40,4	6,4	114,4	6,14	4,24	3,86	96,80	8,20	12,6	37,00
	s	1,673	0,622	0,063	1,673	1,140	13,164	2,138	0,404	0,483	2,588	2,864	2,302	8,155
Haarwasser O	n	5	5	5	5	5	5	5	5	5	5	5	5	5
	$\bar{x}$	148,4	5,86	1,83	41,2	6,60	102,8	5,60	4,28	3,66	96,00	13,60	17,20	32,00
	s	1,673	1,144	0,236	5,404	1,140	6,099	0,872	0,370	0,182	2,915	6,107	3,421	8,456

Klinisch-chemische Parameter, Anfangswerte

Kaninchen, weiblich

		Na	K	anorg. P.	Harns.	Bilir.	Kreat.	Gluc.	Harnst.-N	Ca	Cl	SGOT	SGPT	AP
Kontrolle	n	5	5	5	5	5	5	5	5	3	3	5	5	5
	x	149,60	5,4	2,15	30,00	3,5	86,4	3,26	5,40	+	+	5,20	10,20	76,20
	s	4,980	0,316	0,092	2,449	0,354	3,578	0,829	0,628			1,483	0,837	10,964
Shampoo A	n	5	5	5	5	5	5	5	5	5	5	5	5	5
	x	147,20	6,18	2,23	32,00	4,6	80,20	4,50	5,46	3,38	102,6	8,4	10,00	74,20
	s	3,564	0,550	0,190	1,414	0,418	14,220	0,742	0,483	0,179	1,817	3,782	2,345	16,574
Shampoo O	n	5	5	5	5	5	5	5	5	5	5	5	5	5
	x	146,00	4,94	2,44	37,6	4,20	88,60	3,98	5,60	3,52	102,6	7,6	10,8	91,4
	s	1,581	0,288	0,180	3,847	0,908	7,369	1,379	0,453	0,130	2,608	2,074	2,588	4,465
Haarwasser A	n	5	4	5	5	5	5	5	5	5	4	5	5	5
	x	146,8	5,10	2,17	24,40	3,00	67,00	5,28	5,42	3,16	100,5	8,20	11,80	87,4
	s	2,280	0,216	0,162	3,847	0,612	5,701	0,581	0,522	0,305	1,915	0,837	3,701	19,731
Haarwasser O	n	5	5	5	5	5	5	5	5	5	5	5	5	5
	x	148,00	5,52	2,30	32,8	4,40	63,60	5,90	5,78	3,40	101,60	7,60	10,4	79,6
	s	2,000	0,661	0,102	3,347	0,548	5,177	0,566	0,576	0,122	2,966	2,074	2,510	10,807

Klinisch-chemische Parameter, 4. Versuchswoche

Kaninchen, weiblich

		Na	K	anorg. P	Harns.	Bilir.	Kreat.	Gluc.	Harnst.-N	Ca	Cl	SGOT	SGPT	AP
Kontrolle	n	5	5	5	5	5	5	4	5	5	5	5	5	5
	$\bar{x}$	148,2	6,72	2,47	40,00	4,30	108,8	5,58	8,12	3,26	98,4	10,20	14,00	62,00
	s	1,789	0,536	0,084	2,449	0,570	8,701	0,350	1,522	0,134	5,459	2,168	1,581	3,536
Shampoo A	n	5	5	5	5	5	5	5	5	5	5	4	4	4
	$\bar{x}$	150,2	6,48	2,46	34,80	3,50	92,2	6,52	6,52	3,42	101,8	10,50	11,5	70,25
	s	1,438	0,554	0,171	4,382	0,354	6,221	0,657	0,694	0,141	1,483	1,732	1,291	10,720
Shampoo O	n	5	5	5	5	5	5	5	5	5	5	5	5	5
	$\bar{x}$	149,6	6,58	2,48	37,6	4,20	95,00	6,06	7,82	3,28	105,6	10,80	12,2	70,20
	s	1,673	0,770	0,159	3,847	0,758	6,099	0,730	1,392	0,130	2,191	2,490	1,095	9,680

Klinisch-chemische Parameter, 8. Versuchswoche

Kaninchen, weiblich

		Na	K	anorg. P	Harns.	Bilir.	Kreat.	Gluc.	Harnst.-N	Ca	Cl	SGOT	SGPT	AP
Kontrolle	9	145	5,3	1,92	42	6,0	110	5,4	4,4	3,5	96	5	20	34
(Tier-Nr.)	10	144	5,5	1,86	40	5,5	93	7,0	6,0	3,5	96	9	15	25
Haarwasser A	n	4	4	4	4	4	4	4	4	4	4	4	4	4
	$\bar{x}$	149,00	5,95	2,33	42,50	6,5	122,5	5,03	5,00	3,58	98,75	10,50	13,75	50,25
	s	2,000	0,551	0,194	5,260	1,000	5,000	0,709	0,082	0,126	1,893	3,416	2,500	17,898
Haarwasser O	n	5	5	5	5	5	5	5	5	5	5	5	5	5
	$\bar{x}$	147,40	5,56	1,91	39,6	6,6	113,4	4,96	4,6	3,5	97,6	7,8	14,80	47,6
	s	0,894	0,532	0,161	3,874	1,342	5,273	0,288	0,187	0,158	3,578	2,168	3,114	7,861

ANFANGSWERTE

KLIN. CHEMIE MIT KANINCHEN

KONTROLLE T.O. VERSUCH MIT KANINCHEN KLIN. CHEMIE DOSIS 0 - WOCHE 0
KONTROLLE T.O. TRIAL WITH RABBITS CLIN. CHEMISTRY DOSE 0 - WEEK 0

NR. NO.	NA	K	ANORG. PHOSPH INORG. PHOSPH	HARN-SAEURE URIC ACID	BILI-RUBIN	KREAT. CREAT.	GLUKOSE GLUCOSE	HARNST-N BUN	CA	CL	SGOT	SGPT	AP
						MAENNLICH - MALE							
1	148	5.7	2.25	30	5.0	90	2.7	4.0	3.6	100	5	11	58
2							4.0	5.9	3.4	111	5	11	77
3	146	5.9	2.06	32	4.0	86	4.1	5.8	3.5	106	9	10	66
4	146	6.2	2.15	26	5.0	80	2.6	5.7	3.4	108	8	12	52
5	144	4.9	2.18	20	4.0	76	2.6	5.0	3.4	106	5	12	49
						WEIBLICH - FEMALE							
6	146	5.2	2.05	28	4.0	84	4.6	4.5	3.4	105	5	10	74
7	148	5.4	2.06	28	3.5	86	2.4	5.0			3	10	84
8	150	5.8	2.18	30	3.0	82	3.2	5.8			6	11	58
9	158	5.6	2.26	34	3.5	90	2.8	6.0	3.4	101	7	11	84
10	146	5.0	2.20	30	3.5	90	3.3	5.7	3.2	101	5	9	81

ANFANGSWERTE SHAMPOO MIT WIRKSTOFF

KLIN. CHEMIE MIT KANINCHEN

H 726146 A T.O. VERSUCH MIT KANINCHEN KLIN. CHEMIE DOSIS 0.1 - WOCHE 0
H 726146 A T.O. TRIAL WITH RABBITS CLIN. CHEMISTRY DOSE 0.1 - WEEK 0

NR. NO.	NA	K	ANORG. PHOSPH INORG. PHOSPH	HARN-SAEURE URIC ACID	BILI-RUBIN	KREAT. CREAT.	GLUKOSE GLUCOSE	HARNST-N BUN	CA	CL	SGOT	SGPT	AP
						MAENNLICH - MALE							
11	148	5.8	2.16	30	5.0	75	2.8	4.6	3.3	105	6	18	78
12	148	5.3	1.85	32	4.0	70	2.4	4.6	3.3	105	5	9	41
13	152	7.3	1.97	28	4.5	76	3.6	5.4	3.3	104	5	9	32
14							2.6	7.0	2.6	102	6	15	59
15							2.9	6.1	3.0	106	8	20	37
						WEIBLICH - FEMALE							
16	153	7.0	2.55	32	4.5	98	5.2	5.9	3.6	103	8	10	93
17	144	5.8	2.22	30	5.0	70	3.6	4.8	3.2	103	7	9	87
18	148	6.1	2.10	34	5.0	65	5.3	5.7	3.2	105	15	8	51
19	146	6.4	2.22	32	4.0	76	4.4	5.1	3.4	100	6	9	72
20	145	5.6	2.07	32	4.5	92	4.0	5.8	3.5	102	6	14	68

ANFANGSWERTE SHAMPOO OHNE WIRKSTOFF

KLIN. CHEMIE MIT KANINCHEN

H 726146 A T.O. VERSUCH MIT KANINCHEN KLIN. CHEMIE DOSIS 0.1 - WOCHE 0
H 726146 A T.O. TRIAL WITH RABBITS CLIN. CHEMISTRY DOSE 0.1 - WEEK 0

NR. NO.	NA	K	ANORG. PHOSPH INORG. PHOSPH	HARN-SAEURE URIC ACID	BILI-RUBIN	KREAT. CREAT.	GLUKOSE GLUCOSE	HARNST-N BUN	CA	CL	SGOT	SGPT	AP
						MAENNLICH - MALE							
21	146	5.0	2.50	28	4.5	100	3.8	8.3	3.3	107	12	12	74
22	140	4.7	2.38	28	4.0	101	4.0	8.1	3.3	100	7	11	75
23	138	5.8	1.80	26	3.0	92	4.2	5.4	3.1	112	11	15	68
24	140	6.1	1.50	24	5.0	95	3.8	6.7	2.9	101	20	14	54
25	146	4.8	1.80	30	5.0	95	2.8	6.1	3.6	102	4	13	61
						WEIBLICH - FEMALE							
26	148	5.3	2.63	32	5.0	97	4.8	5.2	3.6	100	11	14	90
27	146	5.0	2.50	38	4.5	80	2.6	6.0	3.6	104	8	10	85
28	147	5.0	2.40	36	3.0	95	2.4	5.1	3.5	106	7	8	96
29	145	4.9	2.15	40	3.5	83	5.4	6.1	3.3	100	6	13	86
30	144	4.5	2.50	42	5.0	88	4.7	5.6	3.6	103	6	9	100

ANFANGSWERTE HAARWASSER MIT WIRKSTOFF

KLIN. CHEMIE MIT KANINCHEN

H 726146 A T.O. VERSUCH MIT KANINCHEN KLIN. CHEMIE DOSIS 0.1 - WOCHE 0
H 726146 A T.O. TRIAL WITH RABBITS CLIN. CHEMISTRY DOSE 0.1 - WEEK 0

NR. NO.	NA	K	ANORG. PHOSPH INORG. PHOSPH	HARN-SAEURE URIC ACID	BILI-RUBIN	KREAT. CREAT.	GLUKOSE GLUCOSE	HARNST-N BUN	CA	CL	SGOT	SGPT	AP
						MAENNLICH - MALE							
31	146	5.0	2.16	50	3.0	80	4.5	6.9	3.6	102	8	10	55
32	150	5.4	2.50	32	4.0	79	4.9	6.8	3.4	97	6	11	72
33	148	5.6	2.00	24	3.5	80	4.7	6.4	3.0	100	15	14	62
34	148	6.2	2.50	22	3.5	92	5.2	6.2	3.4	104	13	14	81
35	150	6.8	2.20	18	3.0	80	4.0	7.2	2.9	102	1	7	70
						WEIBLICH - FEMALE							
36	146	5.3	2.18	24	3.0	65	5.1	6.3	2.8		8	16	85
37	144	5.1	2.14	20	2.5	60	6.2	5.3	2.9	102	7	9	76
38	148	5.2	2.38	22	2.5	65	4.6	5.3	3.2	98	9	14	79
39	146		2.22	26	3.0	70	5.2	5.3	3.5	100	9	7	122
40	150	4.8	1.93	30	4.0	75	5.3	4.9	3.4	102	8	13	75

ANFANGSWERTE HAARWASSER OHNE WIRKSTOFF

KLIN. CHEMIE MIT KANINCHEN

H 726146 A T.O. VERSUCH MIT KANINCHEN KLIN. CHEMIE DOSIS 0.1 - WOCHE 0
H 726146 A T.O. TRIAL WITH RABBITS CLIN. CHEMISTRY DOSE 0.1 - WEEK 0

NR. NO.	NA	K	ANORG. PHOSPH INORG. PHOSPH	HARN-SAEURE URIC ACID	BILI-RUBIN	KREAT. CREAT.	GLUKOSE GLUCOSE	HARNST-N BUN	CA	CL	SGOT	SGPT	AP
						MAENNLICH - MALE							
41	150	5.1	2.05	30	3.0	60	4.8	4.9	3.3	101	10	9	60
42	150	5.0	2.15	26	3.5	70	4.4	5.3	3.0	100	11	13	55
43	148	4.2	2.60	32	3.0	58	5.4	6.1	3.1	103	11	15	44
44	150	5.8	2.40	36	6.0	85	3.7	6.4	3.4	103	11	17	61
45	148	6.2	2.32	38	4.5	78	5.5	8.4	3.6	97	6	20	50
						WEIBLICH - FEMALE							
46	150	4.6	2.34	38	5.0	60	6.8	6.2	3.4	105	9	11	87
47	146	5.4	2.18	30	4.0	68	5.4	6.2	3.3	102	10	14	72
48	146	5.3	2.36	34	5.0	62	5.6	5.1	3.6	103	5	7	65
49	150	6.3	2.20	32	4.0	58	5.6	5.2	3.4	101	8	10	91
50	148	6.0	2.40	30	4.0	70	6.1	6.2	3.3	97	6	10	83

ENDWERTE SHAMPOO

KLIN. CHEMIE MIT KANINCHEN

KONTROLLE T.O. VERSUCH MIT KANINCHEN KLIN. CHEMIE DOSIS 0 - WOCHE 4
KONTROLLE T.O. TRIAL WITH RABBITS CLIN. CHEMISTRY DOSE 0 - WEEK 4

NR. NO.	NA	K	ANORG. PHOSPH INORG. PHOSPH	HARN-SAEURE URIC ACID	BILI-RUBIN	KREAT. CREAT.	GLUKOSE GLUCOSE	HARNST-N BUN	CA	CL	SGOT	SGPT	AP
						MAENNLICH - MALE							
1	150	4.8	1.80	40	3.5	85	5.7	7.6	3.6	96	12	13	46
2	151	6.2	2.18	30	3.0	88	4.9	4.7	3.3	98	13	17	68
3	150	6.0	2.20	34	4.0	77	5.8	8.0	3.7	105	10	15	50
4	150	6.4	2.26	36	4.0	82	5.5	5.9	3.5	99	7	11	44
5	150	7.2	2.30	40.	4.5	93	8.9	7.4	3.9	102	9	17	42
						WEIBLICH - FEMALE							
6	150	6.3	2.60	42	4.0	118	5.4	7.4	3.4	97	9	13	64
7	148	7.6	2.44	40	4.5	105	5.2	5.8	3.4	95	9	15	66
8	150	6.6	2.40	40	4.5	115		8.7	3.2	103	10	14	57
9	146	6.8	2.50	42	5.0	110	5.7	9.3	3.2	92	9	16	60
10	147	6.3	2.40	36	3.5	96	6.0	9.4	3.1	105	14	12	63

ENDWERTE SHAMPOO A

KLIN. CHEMIE MIT KANINCHEN

H 72 6146 A T.O. VERSUCH MIT KANINCHEN KLIN. CHEMIE DOSIS 0.1 - WOCHE 4
H 72 6146 A T.O. TRIAL WITH RABBITS CLIN. CHEMISTRY DOSE 0.1 - WEEK 4

NR. NO.	NA	K	ANORG. PHOSPH INORG. PHOSPH	HARN-SAEURE URIC ACID	BILI-RUBIN	KREAT. CREAT.	GLUKOSE GLUCOSE	HARNST-N BUN	CA	CL	SGOT	SGPT	AP
						MAENNLICH - MALE							
11	150	6.3	2.36	40	4.0	98	6.9	5.3	3.2	107	8	12	59
12	148	6.0	2.30	44	3.5	103	6.0	6.0	3.2	103	13	10	46
13	148	7.3	2.70	38	3.5	110	5.2	7.9	3.2	100			
14	148	5.4	2.32	42	4.0	120	6.4	6.1	3.4	109	10	12	47
15	148	4.8	2.35	40	4.0	90	5.8	7.1	3.4	101	11	15	51
						WEIBLICH - FEMALE							
16	151	7.0	2.60	36	3.5	85	7.3	7.3	3.3	102	8	10	68
17	148	5.8	2.25	28	4.0	95	6.7	5.5	3.3	101	11	12	84
18	150	6.3	2.42	34	3.5	98	6.0	6.3	3.6	104	11	11	58
19	152	7.1	2.66	40	3.0	97	6.9	7.0	3.3	100			
20	150	6.2	2.35	36	3.5	86	5.7	6.5	3.5	102	12	13	71

ENDWERTE Shampoo Null

KLIN. CHEMIE MIT KANINCHEN

H726 146 A T.O. VERSUCH MIT KANINCHEN KLIN. CHEMIE DOSIS 0.1 - WOCHE 4
H726 146 A T.O. TRIAL WITH RABBITS CLIN. CHEMISTRY DOSE 0.1 - WEEK 4

NR. NO.	NA	K	ANORG. PHOSPH INORG. PHOSPH	HARN-SAEURE URIC ACID	BILI-RUBIN	KREAT. CREAT.	GLUKOSE GLUCOSE	HARNST-N BUN	CA	CL	SGOT	SGPT	AP
						MAENNLICH - MALE							
21	151	6.2	2.52	34	3.5	88	5.8	6.1	3.6	98	10	12	50
22	148	6.8	2.40	38	4.0	110	6.5	7.0	3.4	103	9	10	58
23	152	6.3	2.60	40	5.0	105	9.3	6.5	3.5	107	16	17	43
24	150	6.3	2.80	30	4.5	105	7.1	7.4	3.4	98	13	16	59
25	148	6.5	2.50	36	3.0	88	6.3	7.4	3.3	100	9	12	47
						WEIBLICH - FEMALE							
26	150	5.9	2.70	32	3.0	100	7.3	9.1	3.2	109	11	14	61
27	148	7.8	2.58	36	4.5	102	5.5	7.2	3.4	103	10	11	85
28	152	6.8	2.30	38	4.0	96	5.6	9.4	3.1	106	9	12	74
29	148	6.4	2.40	40	4.5	90	6.1	6.1	3.3	105	15	12	63
30	150	6.0	2.42	42	5.0	88	5.8	7.3	3.4	105	9	12	68

ENDWERTE HAARWASSER

KLIN. CHEMIE MIT KANINCHEN

KONTROLLE T.O. VERSUCH MIT KANINCHEN KLIN. CHEMIE DOSIS 0 - WOCHE 8
KONTROLLE T.O. TRIAL WITH RABBITS CLIN. CHEMISTRY DOSE 0 - WEEK 8

NR. NO.	NA	K	ANORG. PHOSPH INORG. PHOSPH	HARN-SAEURE URIC ACID	BILI-RUBIN	KREAT. CREAT.	GLUKOSE GLUCOSE	HARNST-N BUN	CA	CL	SGOT	SGPT	AP
						MAENNLICH - MALE							
3	146	5.1	1.80	40	6.0	100	5.0	4.4	3.4	96	13	33	34
4	144	6.5	1.88	40	6.5	102	7.5	5.1	3.9	95	8	12	28
5	150	6.5	1.79	36	5.5	103	5.6	4.9	3.8	99	10	19	31
						WEIBLICH - FEMALE							
9	145	5.3	1.92	42	6.0	110	5.4	4.4	3.5	96	5	20	34
10	144	5.5	1.86	40	5.5	93	7.0	6.0	3.5	96	9	15	25