



MEZINÁRODNÍ TESTOVÁNÍ DRŮBEŽE ÚSTRAŠICE

státní podnik

390 02 Tábor 2

Česká republika

XXXXX

Trial No. xxxxx (No. 1249)

XXXXX

Test č. xxxxx (VT č. 1249)

**International Poultry Testing Station Ústrašice
Mezinárodní testování drůbeže Ústrašice**

**Czech Republic
Česká republika**

Study Investigator:
Zpracovatel studie:

Ing. Jan Tyl

Associate Investigator:
Spoluzpracovatel studie:

**Ing. Hana Horná
Ing. Markéta Krekulová**

Study monitor:
Dohlížitel:

XXXXX

Study sponsor :
Dohlížitel:

XXXXX

**March 2026
Březen 2026**

Aim of the Project

The objective of this trial is to evaluate the impact of xxxxx alone and in combination with chili powder on average daily gain (ADG), average daily feed intake (ADFI), feed conversion ratio (FCR), mortality, European Production Efficiency Factor (EPEF), carcass yield and breast meat yield and finally financial impact of broilers.

Study location

The study was carried out on the test facility Mezinárodní testování drůbeže, s.p., (next MTD, s.p. only), Ústřašice, Czech Republic. Feed samples were sent for the contents of nutrients by xxxxx.

Trial period

Beginning of the trial:	13 January 2026
End of the trial:	24 February 2026

Study responsibility

Ing. Jan Tyl was the independent Study Director, responsible that the trial is conducted according to the protocol. Ing. Hana Horná was responsible for daily animal care at the test facility. Full details of study's responsibility are provided below.

Persons involved in the trial

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Study sponsor: xxxxxx
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Veterinary Surgeon: xxxxxx
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Material and methods

Birds

In total there were 6000 day old chicks of xxxxx. Day-old chicks were randomly distributed into 8 dietary treatments with 7 or 8 replicates per treatment and 100 chicken per replicate.

Origin 1-day old chicks:

breeder company – Mezinárodní testování drůbeže, s.p. Ústrašice

age of the breeding flock – 40 weeks

Experimental treatments:

Tr. No.	Treatment		xxxxx g/t	xxxxx g/t	xxxxx	Reps	Birds / Rep
1	T1	xxxxx	-	-	-	8	100
2	T2	xxxxx	600	-	-	8	100
3	T3	xxxxx	400	-	-	7	100
4	T4	xxxxx	200	-	-	7	100
5	T5	xxxxx	400	33	6:1	8	100
6	T6	xxxxx	-	33	-	7	100
7	T7	xxxxx	200	66	6:1	8	100
8	T8	xxxxx	-	66	-	7	100

Housing system

Chickens were kept in the windowless chicken house with full climatic control, on deep litter. The heating program was conducted according to the Manual of xxxxx Broilers. Drinking water was supplied ad libitum by nipple drinkers. Each pen was equipped with manually filled tube feeders. Bedding material was wood shaving.

Light was provided as follows during the experimental period:

<u>Lighting programme:</u>	Day 1 - 7	23 hours of light + 1 hour of darkness
	Day 8 - 35	18 hours of light + 6 hours of darkness
	Day 36 - 42	23 hours of light + 1 hour of darkness

Stocking density: 12,3 broilers per square meter

The conduct of the trial was conformed to the national welfare legislation.

Veterinary precautions

The chicken house was disinfected with xxxxx before the chick placement.

On days 1 and 12 the chicken were vaccinated with xxxxx. On the first days old chickens was applied the water solution of permanganate.

Feeds and Diets

Chickens were fed ad libitum according to three phase feeding programme. The test phases were 0-10 days of age for the starter BR1, 11-21 days of age for the grower BR2 A, 22-35 days of age for the grower BR2 B and 36-42 days of age for the finisher BR3.

Feed was produced by International Poultry Testing Station Ústřašice. The composition of diets is shown in following tables.

Ingredients (%)	Starter	Grower 1	Grower 2	Finisher
Corn	45.63	47.87	46.82	47.57
Soyabean meal	34.14	29.36	28.40	26.97
Wheat	15.00	17.50	20.00	20.00
Limestone	1.33	1.10	0.94	0.89
MCP	1.22	0.82	0.51	0.41
Soybean oil	0.47	0.88	1.26	2.17
Sodium bicarbonate	0.29	0.31	0.28	0.27
Salt	0.18	0.17	0.19	0.19
xxxxx	1.24	1.49	1.10	1.03
AMV BR1 plus	0.50	-	-	-
AMV BR2 plus	-	0.50	0.50	-
AMV BR3 plus	-	-	-	0.50
Nutritional composition				
Crude protein (g/kg)	221.60	206.20	199.60	192.60
ME (MJ/kg)	12.20	12.55	12.70	13.00
Lysine (g/kg)	12.90	12.20	11.40	10.90
Methionine (g/kg)	6.50	6.40	5.93	5.84
Met.+Cys. (g/kg)	9.29	9.03	8.55	8.39
Ca (g/kg)	9.90	8.20	7.00	6.60
P av. (g/kg)	4.90	4.10	3.50	3.30
Na (g/kg)	1.80	1.80	1.80	1.80

Parameters recorded and methods applied

Live weight

Live weight was measured on day 1 and on day 10 (the birds in each pen were weighed altogether). On day 21 and 35 of age birds were weighed individually, without fasting. On day 42 birds were weighed individually, after 12 hours of fasting.

Weight gain

Weight gain per phase and average daily weight gains were calculated for the periods 1 – 10 days, 11 – 21 days, 22 – 35 days, 36 – 42 days and for the overall experiment (1 – 42 days).

Feed consumption

Feed consumption was determined per pen for the feed – starter, grower and finisher.

Feed conversion ratio

Feed conversion ratio was calculated as feed consumption per 1 kg of live weight. The calculation was included weight of deaths.

Mortality

All pens were checked three times a day to see if there were any dead or ill birds. Dead chickens were registered by date, weight and reason of mortality on the day of death. Mortality was recorded for the periods 1 – 10 days, 11 – 21 days, 22 – 35 days, 36 – 42 days and 1 – 42 days.

Foot pad lesions

At the end of the trial the animals were recorded according the scale.

Statistical analyses

Performance results of live weight (on days 1, 10, 21, 35 and 42) and feed conversion ratio were statistically evaluated using the ANOVA single-factor model (Scheffe test) or nonparametric method (Kruskal-Wallis test).

Results

Tab. No.	1 Hatchability
	2 Performance results:
	2a Body weight
	2b Weight gain
	2c Feed conversion ratio
	2d Feed consumption
	3 Mortality
	4 Carcass analysis
	5 Foot pad lesions
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	10 Performance results per pen:
	10a Body weight
	10b Weight gain
	10c Feed conversion ratio
	10d Feed consumption
	10e Foot pad lesions
	10f Litter scoring

Results of incubation and hatching

Tab. No. 1

Treatment	Tr. No.	Fertility	Hatchability		Birds housed	Average weight	
			Set eggs	Fertile eggs		Hatching eggs	Day old chicks
		%	%	%		g	g
T1	1	91.27	84.92	93.04	800	67.00	41.69
T2	2				800		41.44
T3	3				700		42.57
T4	4				700		42.97
T5	5				800		40.61
T6	6				700		41.77
T7	7				800		43.00
T8	8				700		42.47

Body weight per phases

Tab. No. 2a

Treatment	Tr. No.	Day 1		Day 10		Day 21		Day 35		Day 42	
		Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
			g		g		g		g		
T1	1	800	41.69	792	295.11	780	1107.95	759	2657.92	739	3425.29
T2	2	800	41.44	791	293.95	775	1102.50	715	2593.48	689	3338.24
T3	3	700	42.57	692	289.72	681	1074.10	646	2613.00	621	3366.65
T4	4	700	42.97	686	289.50	675	1075.76	642	2602.09	615	3359.69
T5	5	800	40.61	786	290.58	774	1078.09	731	2550.64	701	3324.62
T6	6	700	41.77	691	290.60	673	1082.01	648	2568.81	624	3338.59
T7	7	800	43.00	785	287.76	772	1092.60	728	2584.37	689	3363.25
T8	8	700	42.47	691	292.48	678	1104.96	646	2606.32	619	3388.56

Weight gain per phases

Tab. No. 2b

Treatment	Tr. No.	Day 1 - 10		Day 11 - 21		Day 22 - 35		Day 36 - 42		Day 1 - 42	
		Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain	Weight gain per phase	Daily weight gain
		g	g	g	g	g	g	g	g	g	g
T1	1	253.42	25.34	812.84	73.89	1549.97	110.71	767.37	109.62	3383.60	80.56
T2	2	252.51	25.25	808.56	73.51	1490.98	106.50	744.76	106.39	3296.81	78.50
T3	3	247.15	24.72	784.37	71.31	1538.91	109.92	753.65	107.66	3324.08	79.14
T4	4	246.53	24.65	786.26	71.48	1526.32	109.02	757.60	108.23	3316.72	78.97
T5	5	249.97	25.00	787.51	71.59	1472.56	105.18	773.98	110.57	3284.01	78.19
T6	6	248.83	24.88	791.41	71.95	1486.81	106.20	769.78	109.97	3296.82	78.50
T7	7	244.76	24.48	804.84	73.17	1491.76	106.55	778.88	111.27	3320.25	79.05
T8	8	250.01	25.00	812.47	73.86	1501.36	107.24	782.25	111.75	3346.09	79.67

Feed conversion ratio**Tab. No. 2c**

Treatment	Tr. No.	Feed conversion ratio			
		Day 10	Day 21	Day 35	Day 42
		g/kg live weight	g/kg live weight	g/kg live weight	g/kg live weight
T1	1	1005.72	1233.61	1395.13	1507.35
T2	2	971.98	1183.10	1353.03	1466.82
T3	3	991.03	1221.98	1384.14	1497.30
T4	4	951.08	1183.72	1371.03	1480.32
T5	5	968.22	1187.17	1374.40	1463.40
T6	6	1024.45	1196.58	1369.56	1465.53
T7	7	994.66	1206.07	1385.42	1489.86
T8	8	1049.46	1209.61	1405.13	1495.38

Feed consumption per phases

Tab. No. 2d

Treatment	Tr. No.	Feed consumption				
		Starter (d 1-10)	Grower (d 11-21)	Grower (d 22-35)	Finisher (d 36-42)	Total (d 1-42)
		kg	kg	kg	kg	kg
T1	1	235.90	838.00	1790.10	1090.70	3954.70
T2	2	226.90	794.20	1629.20	982.60	3632.90
T3	3	199.60	699.40	1519.80	907.00	3325.80
T4	4	190.10	675.40	1499.70	887.60	3252.80
T5	5	222.40	776.20	1658.90	983.90	3641.40
T6	6	206.60	673.70	1465.60	879.00	3224.90
T7	7	226.30	801.00	1684.50	1017.00	3728.80
T8	8	213.10	701.00	1531.00	885.40	3330.50

Mortality

Tab. No. 3

Treatment	Tr. No.	Mortality in the period											Mortality according causes																	
		Day 1-10		Day 11-21		Day 22-35		Day 36-42		Day 1 – 42			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
		birds	g	birds	g	birds	g	birds	g	birds	g	%																		
T1	1	8	858	12	5479	21	29155	20	56824	61	92316	7.63														3	54			4
T2	2	9	940	16	7690	60	95821	26	72223	111	176674	13.88														6	90			15
T3	3	8	906	11	3327	35	55280	25	70990	79	130503	11.29														4	68			7
T4	4	14	1277	11	3753	33	49553	27	76565	85	131148	12.14														5	63			17
T5	5	14	1299	12	5418	43	62341	30	88702	99	157760	12.38														4	82			13
T6	6	9	870	18	6618	25	40802	24	68932	76	117222	10.86														3	58			15
T7	7	15	1614	13	6669	44	67676	39	109539	111	185498	13.88														4	94			13
T8	8	9	957	13	5582	32	49900	27	73230	81	129669	11.57														1	73			7

Causes:

- 1 - Viral diseases
- 2 - Bacterial diseases
- 3 - Fungal diseases
- 4 - Parasitary diseases
- 5 - Tumors

- 6 - Injuries
- 7 - Digestive tract diseases
- 8 - Respiratory tract diseases
- 9 - Reproduction tract diseases
- 10 - Locomotion apparatus diseases

- 11 - Sudden death syndrome
- 12 - Cannibalism
- 13 - Diverticulus inflammation
- 14 - Culling and other causes
- 15 - Sampling (excluded of calculation)

Treatment	Tr. No.	Sex	Weight				Ratio of abd. fat to live weight	Breast muscles without skin			Thigh muscles with skin			Total muscles			Carcass	
			Total	Body	Gibl.	Abd. fat		Weight	Percentage		Weight	Percentage		Weight	Percentage		Value	Yield
									Total weight	Body carcass		Total weight	Body carcass		Total weight	Body carcass		
			g	g	g	g		%	g	%	%	g	%	%	g	%	%	%
T1	1	♂	3756	2774	190	38	1.02	1013	26.96	36.51	838	22.32	30.22	1851	49.28	66.73	73.85	78.91
		♀	3214	2401	167	44	1.38	867	26.98	36.11	699	21.76	29.12	1566	48.74	65.23	74.72	79.91
		♂	3485	2588	178	41	1.18	940	26.97	36.33	769	22.06	29.71	1709	49.03	66.04	74.25	79.37
T2	2	♂	3659	2693	193	40	1.09	968	26.45	35.93	802	21.92	29.78	1770	48.37	65.72	73.59	78.85
		♀	3071	2298	166	38	1.25	845	27.53	36.79	672	21.87	29.23	1517	49.40	66.01	74.83	80.24
		♂	3365	2495	179	39	1.16	906	26.94	36.33	737	21.90	29.53	1643	48.84	65.86	74.16	79.49
T3	3	♂	3671	2695	190	45	1.24	967	26.33	35.87	804	21.89	29.82	1770	48.22	65.69	73.41	78.57
		♀	3106	2306	165	45	1.45	833	26.80	36.10	678	21.82	29.39	1511	48.62	65.49	74.25	79.57
		♂	3389	2501	178	45	1.34	900	26.55	35.98	741	21.86	29.62	1640	48.41	65.60	73.79	79.03
T4	4	♂	3746	2773	196	40	1.07	978	26.11	35.28	833	22.23	30.03	1811	48.34	65.30	74.02	79.26
		♀	3167	2363	167	42	1.33	859	27.14	36.36	693	21.88	29.32	1552	49.01	65.68	74.63	79.90
		♂	3456	2568	181	41	1.19	919	26.58	35.77	763	22.07	29.70	1681	48.65	65.47	74.30	79.55

Treatment	Tr. No.	Sex	Weight				Ratio of abd. fat to live weight	Breast muscles without skin			Thigh muscles with skin			Total muscles			Carcass	
			Total	Body	Gibl.	Abd. fat		Weight	Percentage		Weight	Percentage		Weight	Percentage		Value	Yield
									Total weight	Body carcass		Total weight	Body carcass		Total weight	Body carcass		
			g	g	g	g		g	%	%	%	g	%	%	g	%	%	%
T5	5	♂	3685	2729	190	37	1.01	976	26.49	35.77	812	22.05	29.77	1789	48.54	65.54	74.06	79.22
		♀	3117	2308	173	43	1.37	832	26.70	36.07	684	21.95	29.65	1517	48.65	65.72	74.03	79.58
		♂	3401	2518	182	40	1.18	904	26.59	35.91	748	22.00	29.72	1653	48.59	65.62	74.04	79.39
T6	6	♂	3712	2728	191	40	1.09	991	26.70	36.34	820	22.09	30.06	1811	48.79	66.39	73.49	78.62
		♀	3128	2331	174	41	1.31	843	26.94	36.15	692	22.13	29.70	1535	49.08	65.85	74.53	80.11
		♂	3420	2530	183	41	1.19	917	26.81	36.25	756	22.11	29.89	1673	48.92	66.14	73.97	79.30
T7	7	♂	3724	2749	193	42	1.13	975	26.19	35.48	817	21.93	29.71	1792	48.11	65.18	73.81	79.00
		♀	3157	2301	170	45	1.42	831	26.32	36.11	680	21.53	29.54	1511	47.85	65.65	72.89	78.28
		♂	3441	2525	182	43	1.26	903	26.25	35.77	748	21.75	29.63	1651	47.99	65.40	73.39	78.67
T8	8	♂	3733	2725	195	38	1.02	997	26.71	36.59	808	21.65	29.66	1805	48.35	66.25	72.99	78.21
		♀	3145	2348	170	42	1.33	853	27.13	36.35	680	21.61	28.96	1533	48.74	65.31	74.63	80.04
		♂	3439	2536	183	40	1.16	925	26.90	36.48	744	21.63	29.33	1669	48.53	65.81	73.74	79.05

Foot pad lesions**Tab. No. 5**

Treatment	Tr. No.	Evaluation	
		right foot	left foot
T1	1	0.79	0.74
T2	2	0.86	0.86
T3	3	0.81	0.79
T4	4	0.70	0.73
T5	5	0.79	0.79
T6	6	0.90	0.87
T7	7	0.86	0.86
T8	8	0.89	0.85

Litter scoring**Tab. No. 6**

Treatment	Tr. No.	Litter scoring	
		Day 35	Day 42
T1	1	2.63	3.13
T2	2	2.38	3.00
T3	3	2.43	3.00
T4	4	2.14	3.00
T5	5	2.25	3.00
T6	6	2.57	3.14
T7	7	2.63	3.00
T8	8	2.29	3.00

Statistical analysis - Body weight at 42 days of age

Tab. No. 7

Treatment	Tr. No.	Cocks				Hens			
		Number of birds	Average body weight	Standard deviation	Coefficient of variation	Number of birds	Average body weight	Standard deviation	Coefficient of variation
			g/birds	g/birds	%		g/birds	g/birds	%
T1	1	372	3745.32	342.22	9.14	367	3100.90	349.03	11.26
T2	2	343	3656.79	350.52	9.59	346	3022.46	358.48	11.86
T3	3	313	3672.88	348.56	9.49	308	3055.45	417.17	13.65
T4	4	306	3723.33	323.49	8.69	309	2999.58	390.80	13.03
T5	5	348	3646.81	397.29	10.89	353	3007.00	344.87	11.47
T6	6	313	3602.24	381.29	10.58	311	3073.25	374.44	12.18
T7	7	346	3701.62	355.61	9.61	343	3021.92	368.57	12.20
T8	8	309	3717.61	340.70	9.16	310	3060.58	338.45	11.06

Statistical analyses of performance results

Performance results were statistically evaluated using the ANOVA single-factor model (Duncan test, Scheffe test) or nonparametric method (Kruskal-Wallis test).

The following symbols are used for levels of significance:

- $p \leq 0,001$ * * * - differences are very high significant
- $p \leq 0,01$ * * - differences are high significant
- $p \leq 0,05$ * - differences are significant
- $p > 0,05$ o - differences are not significant

Body weight - day 1

Tab. No. 8a

Treatment	Treat. No.	No. of box	Average (g)	Standard deviation	Scheffe test							
					T1	T2	T3	T4	T5	T6	T7	T8
T1	1	8	41.69	0.20		o	***	***	***	o	***	**
T2	2	8	41.44	0.32	0.898553		***	***	***	o	***	***
T3	3	7	42.57	0.22	0.000417	0.000002		o	***	**	o	o
T4	4	7	42.97	0.28	0.000000	0.000000	0.518153		***	***	o	o
T5	5	8	40.61	0.34	0.000004	0.000745	0.000000	0.000000		***	***	***
T6	6	7	41.77	0.24	0.999892	0.700737	0.003258	0.000001	0.000001		***	*
T7	7	8	43.00	0.48	0.000000	0.000000	0.380377	1.000000	0.000000	0.000000		o
T8	8	7	42.47	0.15	0.002753	0.000020	0.999718	0.226627	0.000000	0.016962	0.138320	

Body weight - day 10

Tab. No. 8b

Treatment	Treat. No.	No. of box	Average (g)	Standard deviation	Scheffe test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	8	295.11	6.28		o	o	o	o	o	o	o	o
T2	2	8	293.95	5.78	0.999976		o	o	o	o	o	o	o
T3	3	7	289.72	6.01	0.799887	0.935823		o	o	o	o	o	o
T4	4	7	289.50	5.40	0.764131	0.916774	1.000000		o	o	o	o	o
T5	5	8	290.58	3.04	0.892161	0.977393	0.999998	0.999989		o	o	o	o
T6	6	7	290.60	4.69	0.910564	0.982057	0.999998	0.999990	1.000000		o	o	o
T7	7	8	287.76	6.89	0.390962	0.620470	0.999356	0.999710	0.992024	0.993259		o	o
T8	8	7	292.48	3.12	0.995824	0.999910	0.995354	0.992506	0.999474	0.999603	0.888470		

Body weight - day 21

Tab. No. 8c

Treatment	Treat. No.	No. of birds	Average (g)	Standard deviation	Kruskal-Wallis test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	780	1107.95	127.55		o	***	***	***	***	*	***	***
T2	2	775	1102.50	138.72	1.000000		***	***	*	***	o	***	***
T3	3	681	1074.10	132.95	0.000000	0.000000		o	**	o	***	o	o
T4	4	675	1075.76	142.17	0.000000	0.000000	1.000000		**	o	***	o	o
T5	5	774	1078.09	150.38	0.000015	0.010832	0.001025	0.004169		***	o	o	o
T6	6	673	1082.01	139.49	0.000000	0.000000	1.000000	1.000000	0.000534		***	o	o
T7	7	772	1092.60	135.40	0.020991	1.000000	0.000000	0.000001	1.000000	0.000000		*	*
T8	8	678	1104.96	153.27	0.000000	0.000004	0.097414	0.289830	1.000000	0.156418	0.032451		

Body weight - day 35

Tab. No. 8d

Treatment	Treat. No.	No. of birds	Average (g)	Standard deviation	Scheffe test							
					T1	T2	T3	T4	T5	T6	T7	T8
T1	1	759	2657.92	321.32		*	o	o	***	***	**	o
T2	2	715	2593.48	329.95	0.049359		o	o	o	o	o	o
T3	3	646	2613.00	330.68	0.482697	0.991051		o	o	o	o	o
T4	4	642	2602.09	334.52	0.188187	0.999959	0.999824		o	o	o	o
T5	5	731	2550.64	343.60	0.000002	0.525235	0.090910	0.302681		o	o	o
T6	6	648	2568.81	309.60	0.000598	0.964598	0.559337	0.856143	0.994026		o	o
T7	7	728	2584.37	344.10	0.009759	0.999924	0.919996	0.994997	0.798985	0.997772		o
T8	8	646	2606.32	314.58	0.284365	0.999384	0.999994	1.000000	0.199536	0.756230	0.981503	

Body weight - day 42

Tab. No. 8e

Treatment	Treat. No.	No. of birds	Average (g)	Standard deviation	Scheffe test							
					T1	T2	T3	T4	T5	T6	T7	T8
T1	1	739	3425.29	472.49		o	o	o	*	o	o	o
T2	2	689	3338.24	475.66	0.117223		o	o	o	o	o	o
T3	3	621	3366.65	492.71	0.665605	0.992540		o	o	o	o	o
T4	4	615	3359.69	509.67	0.520508	0.998766	1.000000		o	o	o	o
T5	5	701	3324.62	490.44	0.029572	0.999925	0.928313	0.973680		o	o	o
T6	6	624	3338.59	461.13	0.145233	1.000000	0.994040	0.999051	0.999925		o	o
T7	7	689	3363.25	496.59	0.556368	0.996017	1.000000	1.000000	0.947042	0.996894		o
T8	8	619	3388.56	472.46	0.963059	0.832571	0.998783	0.993085	0.570755	0.854574	0.996386	

FCR - day 10

Tab. No. 9a

Treatment	Treat. No.	No. of box	Average (g)	Standard deviation	Scheffe test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	8	1005.89	42.01		o	o	o	o	o	o	o	o
T2	2	8	971.75	25.73	0.866237		o	o	o	o	o	o	o
T3	3	7	991.26	47.66	0.999186	0.994927		o	o	o	o	o	o
T4	4	7	951.60	40.51	0.401969	0.993784	0.807509		o	o	o	o	**
T5	5	8	968.50	26.74	0.801057	1.000000	0.987091	0.997937		o	o	o	*
T6	6	7	1024.55	47.88	0.996147	0.440154	0.913474	0.108152	0.359006		o	o	o
T7	7	8	995.15	32.91	0.999869	0.981429	1.000000	0.686262	0.961455	0.945839		o	o
T8	8	7	1049.61	41.39	0.681888	0.051092	0.348229	0.006288	0.035397	0.981203	0.397705		o

FCR - day 21

Tab. No. 9b

Treatment	Treat. No.	No. of box	Average (g)	Standard deviation	Scheffe test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	8	1233.62	29.60		o	o	o	o	o	o	o	o
T2	2	8	1184.74	44.93	0.738231		o	o	o	o	o	o	o
T3	3	7	1224.45	60.61	0.999991	0.909378		o	o	o	o	o	o
T4	4	7	1183.77	20.73	0.752722	1.000000	0.912894		o	o	o	o	o
T5	5	8	1188.72	46.75	0.813965	1.000000	0.946965	1.000000		o	o	o	o
T6	6	7	1197.44	55.43	0.943354	0.999916	0.990964	0.999889	0.999994		o	o	o
T7	7	8	1206.45	44.49	0.986074	0.996454	0.999143	0.996240	0.999029	0.999992		o	o
T10	8	7	1212.72	60.95	0.997757	0.986489	0.999961	0.986337	0.994647	0.999765	0.999999		o

FCR - day 35

Tab. No. 9c

Treatment	Treat. No.	No. of box	Average (g)	Standard deviation	Scheffe test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	8	1396.25	43.04		o	o	o	o	o	o	o	o
T2	2	8	1353.05	35.36	0.675648		o	o	o	o	o	o	o
T3	3	7	1384.68	26.05	0.999847	0.927726		o	o	o	o	o	o
T4	4	7	1371.47	26.68	0.980788	0.996801	0.999702		o	o	o	o	o
T5	5	8	1375.35	44.71	0.991375	0.987294	0.999964	1.000000		o	o	o	o
T6	6	7	1370.03	38.59	0.973497	0.998092	0.999408	1.000000	0.999999		o	o	o
T7	7	8	1386.18	51.07	0.999924	0.892540	1.000000	0.999249	0.999877	0.998621		o	o
T10	8	7	1405.86	37.66	0.999956	0.462861	0.993756	0.906667	0.939811	0.886398	0.995157		o

FCR - day 42

Tab. No. 9d

Treatment	Treat. No.	No. of box	Average (g)	Standard deviation	Scheffe test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	8	1508.02	45.65		o	o	o	o	o	o	o	o
T2	2	8	1466.68	42.43	0.765892		o	o	o	o	o	o	o
T3	3	7	1496.59	43.38	0.999895	0.956920		o	o	o	o	o	o
T4	4	7	1480.66	32.82	0.973585	0.999596	0.999226		o	o	o	o	o
T5	5	8	1464.79	54.48	0.721886	1.000000	0.940423	0.999068		o	o	o	o
T6	6	7	1465.86	28.87	0.779436	1.000000	0.958134	0.999524	1.000000		o	o	o
T7	7	8	1489.96	43.81	0.997332	0.987316	0.999997	0.999974	0.979987	0.987315		o	o
T10	8	7	1495.52	21.70	0.999808	0.964658	1.000000	0.999510	0.950211	0.965486	0.999999		o

Performance results per replicate

Body weight per phases

Tab. No. 10a (page 1)

Treatment	Tr. No.	Pen	Day 1		Day 10		Day 21		Day 35		Day 42	
			Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
				g		g		g		g		
T1	1	1	100	41.60	98	300.00	97	1114.43	94	2612.02	93	3387.53
		9	100	41.90	99	300.00	97	1121.55	95	2577.89	90	3433.22
		17	100	41.80	100	283.00	100	1107.50	94	2713.72	94	3443.94
		25	100	41.80	99	294.95	99	1110.10	93	2681.08	89	3579.55
		34	100	41.60	100	291.00	99	1081.52	98	2618.27	96	3332.40
		42	100	41.60	100	295.00	98	1099.29	98	2697.96	95	3413.79
		50	100	41.30	98	293.88	98	1097.45	97	2792.89	94	3478.51
		58	100	41.90	98	303.06	92	1133.80	90	2562.22	88	3338.07
T2	2	2	100	41.90	97	297.94	97	1099.48	96	2536.25	94	3320.74
		10	100	41.80	100	300.00	98	1162.55	88	2605.11	85	3354.82
		18	100	41.60	100	291.00	99	1123.94	86	2653.02	84	3359.52
		26	100	41.50	100	287.00	100	1091.20	89	2587.75	87	3420.46
		33	100	41.10	99	288.89	98	1022.35	96	2537.40	93	3171.08
		41	100	41.30	99	289.90	94	1070.21	91	2598.68	90	3357.78
		49	100	41.00	97	293.81	92	1121.20	79	2686.20	71	3470.00
57	100	41.30	99	303.03	97	1129.18	90	2565.11	85	3288.00		
T3	3	3	100	42.50	100	286.00	100	1038.50	97	2677.84	97	3392.37
		11	100	42.80	99	302.02	98	1087.04	96	2615.00	92	3346.74
		19	100	42.60	100	288.00	99	1123.94	95	2679.89	91	3367.91
		27	100	42.40	97	283.51	94	1085.96	82	2535.85	77	3497.01
		40	100	42.80	97	287.63	95	991.05	93	2552.90	89	3246.74
		48	100	42.70	100	289.00	97	1063.71	91	2615.71	86	3312.56
56	100	42.20	99	291.92	98	1126.53	92	2600.33	89	3417.30		
T4	4	4	100	42.70	97	287.63	94	1042.45	91	2581.76	91	3338.13
		12	100	43.50	99	293.94	95	1084.00	88	2617.84	79	3409.49
		20	100	43.10	97	293.81	96	1094.48	89	2607.87	86	3292.67
		28	100	43.00	97	284.54	95	1103.37	90	2648.11	85	3528.24
		39	100	42.80	100	287.00	100	1065.10	99	2646.97	93	3285.70
		47	100	43.00	98	282.65	98	1085.31	92	2643.91	90	3440.22
		55	100	42.70	98	296.94	97	1055.77	93	2467.85	91	3239.89

Body weight per phases

Tab. No. 10a (page 2)

Treatment	Tr. No.	Pen	Day 1		Day 10		Day 21		Day 35		Day 42	
			Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
				g		g		g		g		
T5	5	5	100	40.60	98	294.90	98	1026.84	95	2511.58	92	3250.87
		13	100	40.60	99	287.88	97	1116.29	91	2605.60	82	3401.59
		21	100	40.20	100	292.00	98	1068.06	95	2552.74	91	3426.92
		29	100	40.40	97	293.81	96	1094.27	82	2567.44	77	3461.17
		32	100	40.20	96	289.58	94	1012.77	88	2508.18	86	3197.21
		38	100	40.80	97	286.60	94	1151.49	90	2554.33	86	3272.56
		46	100	41.00	100	292.00	100	1052.60	96	2550.10	95	3278.74
		54	100	41.10	99	287.88	97	1104.23	94	2556.91	92	3329.46
T6	6	6	100	41.90	98	284.69	96	1116.25	93	2514.09	92	3225.87
		14	100	41.40	100	294.00	96	1060.94	91	2580.00	85	3349.88
		22	100	41.90	100	287.00	98	1050.92	94	2541.91	92	3428.26
		30	100	42.10	98	296.94	93	1108.71	87	2650.57	76	3486.97
		37	100	41.80	99	285.86	98	1072.86	96	2558.96	94	3262.23
		45	100	41.50	98	292.86	96	1049.38	94	2635.53	93	3333.23
		53	100	41.80	98	292.86	96	1116.67	93	2506.02	92	3312.07
T7	7	7	100	42.80	99	294.95	98	1145.00	85	2689.88	77	3552.34
		15	100	43.00	98	288.78	96	1145.94	87	2736.78	83	3487.83
		23	100	43.20	99	292.93	97	1081.55	91	2513.74	87	3360.00
		31	100	43.20	97	294.85	97	1047.73	96	2549.06	92	3288.48
		36	100	43.50	98	280.61	98	1041.43	98	2528.57	98	3249.39
		44	100	43.60	99	287.88	98	1046.22	98	2570.92	96	3263.85
		52	100	42.30	97	286.60	93	1117.31	85	2590.71	73	3456.30
		60	100	42.40	98	275.51	95	1118.21	88	2514.32	83	3317.11
T8	8	8	100	42.50	99	288.89	99	1210.91	93	2604.19	86	3396.51
		16	100	42.40	98	295.92	97	1126.91	90	2703.22	86	3415.35
		24	100	42.20	99	288.89	96	1094.06	91	2645.82	84	3480.48
		35	100	42.50	98	291.84	96	1010.94	94	2469.47	91	3255.05
		43	100	42.50	99	291.92	98	1062.65	93	2628.17	89	3390.00
		51	100	42.70	100	293.00	98	1092.65	93	2654.52	91	3475.71
		59	100	42.50	98	296.94	94	1134.79	92	2543.59	92	3316.63

Weight gain per phases (WG) and daily weight gain (DWG)

Tab. No. 10b (page 1)

Treatment	Tr. No.	Box	Day 1 - 10		Day 11 - 21		Day 22 - 35		Day 36 - 42		Day 1 - 42	
			WG	DWG	WG	DWG	WG	DWG	WG	DWG	WG	DWG
			g	g	g	g	g	g	g	g	g	g
T1	1	1	258.40	25.84	814.43	74.04	1497.59	106.97	775.51	110.79	3345.93	79.66
		9	258.10	25.81	821.55	74.69	1456.35	104.02	855.33	122.19	3391.32	80.75
		17	241.20	24.12	824.50	74.95	1606.22	114.73	730.21	104.32	3402.14	81.00
		25	253.15	25.31	815.15	74.10	1570.97	112.21	898.48	128.35	3537.75	84.23
		34	249.40	24.94	790.52	71.87	1536.75	109.77	714.13	102.02	3290.80	78.35
		42	253.40	25.34	804.29	73.12	1598.67	114.19	715.83	102.26	3372.19	80.29
		50	252.58	25.26	803.57	73.05	1695.44	121.10	685.62	97.95	3437.21	81.84
		58	261.16	26.12	830.74	75.52	1428.42	102.03	775.85	110.84	3296.17	78.48
T2	2	2	256.04	25.60	801.55	72.87	1436.77	102.63	784.49	112.07	3278.84	78.07
		10	258.20	25.82	862.55	78.41	1442.56	103.04	749.71	107.10	3313.02	78.88
		18	249.40	24.94	832.94	75.72	1529.08	109.22	706.50	100.93	3317.92	79.00
		26	245.50	24.55	804.20	73.11	1496.55	106.90	832.71	118.96	3378.96	80.45
		33	247.79	24.78	733.46	66.68	1515.05	108.22	633.68	90.53	3129.98	74.52
		41	248.60	24.86	780.31	70.94	1528.47	109.18	759.10	108.44	3316.48	78.96
		49	252.81	25.28	827.38	75.22	1565.01	111.79	783.80	111.97	3429.00	81.64
		57	261.73	26.17	826.14	75.10	1435.94	102.57	722.89	103.27	3246.70	77.30
T3	3	3	243.50	24.35	752.50	68.41	1639.34	117.10	714.54	102.08	3349.87	79.76
		11	259.22	25.92	785.02	71.37	1527.96	109.14	731.74	104.53	3303.94	78.67
		19	245.40	24.54	835.94	75.99	1555.96	111.14	688.02	98.29	3325.31	79.17
		27	241.11	24.11	802.45	72.95	1449.90	103.56	961.16	137.31	3454.61	82.25
		40	244.83	24.48	703.42	63.95	1561.85	111.56	693.84	99.12	3203.94	76.28
		48	246.30	24.63	774.71	70.43	1552.00	110.86	696.84	99.55	3269.86	77.85
		56	249.72	24.97	834.61	75.87	1473.80	105.27	816.98	116.71	3375.10	80.36
		T4	4	4	244.93	24.49	754.82	68.62	1539.31	109.95	756.37	108.05
12	250.44			25.04	790.06	71.82	1533.84	109.56	791.65	113.09	3365.99	80.14
20	250.71			25.07	800.66	72.79	1513.39	108.10	684.81	97.83	3249.57	77.37
28	241.54			24.15	818.83	74.44	1544.74	110.34	880.12	125.73	3485.24	82.98
39	244.20			24.42	778.10	70.74	1581.87	112.99	638.73	91.25	3242.90	77.21
47	239.65			23.97	802.65	72.97	1558.61	111.33	796.31	113.76	3397.22	80.89
55	254.24			25.42	758.83	68.98	1412.08	100.86	772.04	110.29	3197.19	76.12

Weight gain per phases (WG) and daily weight gain (DWG)

Tab. No. 10b (page 2)

Treatment	Tr. No.	Box	Day 1 - 10		Day 11 - 21		Day 22 - 35		Day 36 - 42		Day 1 - 42	
			WG	DWG	WG	DWG	WG	DWG	WG	DWG	WG	DWG
			g	g	g	g	g	g	g	g	g	g
T5	5	5	254.30	25.43	731.94	66.54	1484.74	106.05	739.29	105.61	3210.27	76.43
		13	247.28	24.73	828.41	75.31	1489.32	106.38	795.98	113.71	3360.99	80.02
		21	251.80	25.18	776.06	70.55	1484.68	106.05	874.19	124.88	3386.72	80.64
		29	253.41	25.34	800.46	72.77	1473.17	105.23	893.73	127.68	3420.77	81.45
		32	249.38	24.94	723.18	65.74	1495.42	106.82	689.03	98.43	3157.01	75.17
		38	245.80	24.58	864.89	78.63	1402.84	100.20	718.22	102.60	3231.76	76.95
		46	251.00	25.10	760.60	69.15	1497.50	106.96	728.63	104.09	3237.74	77.09
		54	246.78	24.68	816.35	74.21	1452.69	103.76	772.54	110.36	3288.36	78.29
T6	6	6	242.79	24.28	831.56	75.60	1397.84	99.85	711.78	101.68	3183.97	75.81
		14	252.60	25.26	766.94	69.72	1519.06	108.50	769.88	109.98	3308.48	78.77
		22	245.10	24.51	763.92	69.45	1491.00	106.50	886.35	126.62	3386.36	80.63
		30	254.84	25.48	811.77	73.80	1541.87	110.13	836.40	119.49	3444.87	82.02
		37	244.06	24.41	787.00	71.55	1486.10	106.15	703.28	100.47	3220.43	76.68
		45	251.36	25.14	756.52	68.77	1586.16	113.30	697.69	99.67	3291.73	78.37
		53	251.06	25.11	823.81	74.89	1389.35	99.24	806.04	115.15	3270.27	77.86
T7	7	7	252.15	25.21	850.05	77.28	1544.88	110.35	862.46	123.21	3509.54	83.56
		15	245.78	24.58	857.16	77.92	1590.84	113.63	751.05	107.29	3444.83	82.02
		23	249.73	24.97	788.62	71.69	1432.19	102.30	846.26	120.89	3316.80	78.97
		31	251.65	25.16	752.89	68.44	1501.33	107.24	739.42	105.63	3245.28	77.27
		36	237.11	23.71	760.82	69.17	1487.14	106.22	720.82	102.97	3205.89	76.33
		44	244.28	24.43	758.35	68.94	1524.69	108.91	692.94	98.99	3220.25	76.67
		52	244.30	24.43	830.71	75.52	1473.39	105.24	865.60	123.66	3414.00	81.29
		60	233.11	23.31	842.70	76.61	1396.11	99.72	802.79	114.68	3274.71	77.97
T8	8	8	246.39	24.64	922.02	83.82	1393.28	99.52	792.32	113.19	3354.01	79.86
		16	253.52	25.35	830.99	75.54	1576.32	112.59	712.13	101.73	3372.95	80.31
		24	246.69	24.67	805.17	73.20	1551.76	110.84	834.65	119.24	3438.28	81.86
		35	249.34	24.93	719.10	65.37	1458.53	104.18	785.59	112.23	3212.55	76.49
		43	249.42	24.94	770.73	70.07	1565.52	111.82	761.83	108.83	3347.50	79.70
		51	250.30	25.03	799.65	72.70	1561.86	111.56	821.20	117.31	3433.01	81.74
		59	254.44	25.44	837.85	76.17	1408.80	100.63	773.04	110.43	3274.13	77.96

Feed conversion ratio

Tab. No. 10c (page 1)

Treatm ent	Tr. No.	Box	Feed conversion ratio			
			Day 10	Day 21	Day 35	Day 42
			g/kg live weight	g/kg live weight	g/kg live weight	g/kg live weight
T1	1	1	1080.77	1263.98	1456.29	1550.40
		9	963.48	1201.14	1436.70	1507.03
		17	1031.80	1246.95	1391.57	1544.79
		25	959.37	1213.75	1381.32	1420.50
		34	1024.05	1272.35	1412.07	1540.64
		42	1016.95	1242.17	1372.72	1513.33
		50	1005.54	1239.46	1314.95	1459.99
		58	965.15	1189.15	1404.37	1527.50
T2	2	2	938.90	1178.31	1430.01	1528.55
		10	990.00	1114.98	1349.68	1453.31
		18	989.69	1163.79	1320.01	1420.71
		26	954.70	1162.02	1326.58	1413.20
		33	935.00	1247.97	1357.76	1514.17
		41	996.98	1244.07	1371.09	1494.55
		49	972.08	1202.75	1335.78	1442.32
		57	996.68	1164.07	1333.50	1466.64
T3	3	3	1000.00	1239.29	1380.14	1521.57
		11	958.17	1196.03	1394.39	1497.16
		19	982.64	1174.15	1356.49	1513.36
		27	942.38	1198.96	1402.76	1415.90
		40	1085.30	1352.33	1401.50	1543.49
		48	961.94	1224.47	1343.50	1463.69
		56	1008.36	1185.93	1413.94	1520.97
T4	4	4	961.47	1171.87	1374.66	1487.40
		12	952.61	1193.41	1412.32	1519.46
		20	931.63	1180.60	1336.06	1476.07
		28	982.90	1154.16	1365.13	1433.54
		39	898.95	1172.66	1359.52	1519.15
		47	1017.49	1195.28	1352.78	1446.24
		55	916.15	1218.43	1399.84	1482.74

Feed conversion ratio

Tab. No. 10c (page 2)

Treatment	Tr. No.	Box	Feed conversion ratio			
			Day 10	Day 21	Day 35	Day 42
			g/kg live weight	g/kg live weight	g/kg live weight	g/kg live weight
T5	5	5	939.69	1268.08	1372.20	1492.42
		13	979.77	1134.13	1336.37	1440.46
		21	928.08	1206.37	1392.19	1435.40
		29	949.20	1199.27	1398.44	1410.88
		32	990.80	1234.84	1409.65	1539.43
		38	1001.66	1157.45	1432.21	1543.64
		46	969.18	1164.73	1290.38	1403.98
		54	989.61	1144.90	1371.35	1452.09
T6	6	6	1073.47	1106.74	1366.75	1458.46
		14	1023.81	1246.08	1379.96	1483.78
		22	944.25	1226.94	1364.56	1423.78
		30	1054.54	1252.69	1416.38	1487.63
		37	1045.81	1164.02	1299.56	1431.06
		45	1056.08	1229.96	1354.87	1497.47
		53	973.87	1155.65	1408.15	1478.87
T7	7	7	1014.34	1200.95	1425.14	1512.24
		15	1011.59	1193.20	1336.15	1472.96
		23	972.61	1202.43	1403.92	1477.23
		31	939.73	1310.72	1428.84	1556.42
		36	1018.65	1189.15	1382.61	1459.27
		44	973.42	1158.78	1293.68	1463.69
		52	987.88	1193.05	1374.62	1432.22
		60	1042.97	1203.30	1444.45	1545.68
T8	8	8	1109.60	1101.39	1421.55	1509.38
		16	1086.21	1189.52	1342.93	1459.19
		24	1066.28	1247.79	1422.23	1500.76
		35	1006.92	1301.72	1450.15	1522.29
		43	1036.11	1221.18	1375.55	1478.75
		51	1047.78	1221.95	1391.80	1487.69
		59	994.36	1205.52	1436.83	1510.56

Feed consumption per phases

Tab. No. 10d (page 1)

Treatm ent	Tr. No.	Box	Feed consumption				
			Starter (D 1-10)	Grower (D 11-21)	Grower (D 22-35)	Finisher (D 36-42)	Total (D 1-42)
			kg	kg	kg	kg	kg
T1	1	1	32.10	105.70	228.60	135.20	501.60
		9	28.70	103.50	223.30	136.20	491.70
		17	29.20	108.90	228.50	146.40	513.00
		25	28.10	105.40	223.20	123.50	480.20
		34	29.80	107.10	228.60	140.20	505.70
		42	30.00	104.50	229.20	142.00	505.70
		50	29.20	104.40	223.90	134.20	491.70
	58	28.80	98.50	204.80	133.00	465.10	
T2	2	2	27.40	98.60	225.10	135.90	487.00
		10	29.70	98.40	204.60	118.30	451.00
		18	28.80	101.00	200.90	110.60	441.30
		26	27.40	99.40	201.90	126.10	454.80
		33	26.80	99.00	209.70	130.00	465.50
		41	28.70	99.90	204.70	133.50	466.80
		49	28.10	98.50	185.10	104.30	416.00
	57	30.00	99.40	197.20	123.90	450.50	
T3	3	3	28.60	100.10	235.70	142.80	507.20
		11	28.70	99.00	226.90	127.20	481.80
		19	28.30	102.60	225.70	136.60	493.20
		27	26.30	97.90	192.20	110.40	426.80
		40	30.70	98.20	210.40	130.00	469.30
		48	27.80	99.40	207.50	120.10	454.80
		56	29.20	102.20	221.40	139.90	492.70
T4	4	4	27.00	89.50	214.20	129.50	460.20
		12	27.80	97.00	218.00	124.90	467.70
		20	26.90	97.80	201.50	120.00	446.20
		28	27.30	94.70	215.20	127.30	464.50
		39	25.80	99.10	232.30	134.20	491.40
		47	28.50	99.00	215.40	127.70	470.60
		55	26.80	98.30	203.10	124.00	452.20

Feed consumption per phases

Tab. No. 10d (page 2)

Treatment	Tr. No.	Box	Feed consumption				
			Starter (D 1-10)	Grower (D 11-21)	Grower (D 22-35)	Finisher (D 36-42)	Total (D 1-42)
			kg	kg	kg	kg	kg
T5	5	5	27.30	100.50	206.50	132.50	466.80
		13	28.00	96.80	204.70	123.10	452.60
		21	27.10	100.10	216.10	127.20	470.50
		29	27.30	99.50	199.00	104.30	430.10
		32	27.80	90.80	203.10	119.60	441.30
		38	28.30	98.40	213.50	125.70	465.90
		46	28.30	94.30	201.60	126.90	451.10
	54	28.30	95.80	214.40	124.60	463.10	
T6	6	6	30.10	89.70	207.10	117.70	444.60
		14	30.10	99.10	207.20	126.20	462.60
		22	27.10	100.00	208.60	131.90	467.60
		30	30.90	101.10	211.50	114.00	457.50
		37	29.70	93.00	202.60	128.30	453.60
		45	30.60	94.20	216.10	133.20	474.10
	53	28.10	96.60	212.50	127.70	464.90	
T7	7	7	29.70	106.50	220.40	126.50	483.10
		15	28.80	103.80	204.30	129.90	466.80
		23	28.30	99.00	208.50	129.00	464.80
		31	27.30	106.50	219.00	136.00	488.80
		36	28.30	93.40	221.30	122.10	465.10
		44	27.80	91.60	207.20	137.30	463.90
		52	27.80	98.90	197.00	108.90	432.60
	60	28.30	101.30	206.80	127.30	463.70	
T8	8	8	31.80	100.30	224.00	126.10	482.20
		16	31.70	98.90	209.60	119.40	459.60
		24	30.60	102.10	222.50	128.60	483.80
		35	29.10	98.40	216.90	127.30	471.70
		43	30.10	97.90	220.60	125.10	473.70
		51	30.70	101.40	224.20	133.80	490.10
	59	29.10	102.00	213.20	125.10	469.40	

Foot pad lesions

Tab. No. 10e (page 1)

Treatment	Tr. No.	Box No.	Evaluation	
			right foot	left foot
T1	1	1	0.55	0.63
		9	0.68	0.50
		17	0.53	0.45
		25	0.75	0.60
		34	1.00	0.95
		42	0.90	0.83
		50	0.88	1.00
		58	1.08	0.95
T2	2	2	1.25	1.18
		10	0.63	0.55
		18	0.58	0.45
		26	0.85	0.90
		33	0.90	0.90
		41	0.90	0.98
		49	0.85	0.98
		57	0.90	0.93
T3	3	3	1.25	1.15
		11	0.68	0.63
		19	0.63	0.63
		27	0.68	0.53
		40	0.78	0.88
		48	0.88	0.85
		56	0.83	0.85
T4	4	4	0.60	0.63
		12	0.45	0.48
		20	0.65	0.68
		28	0.40	0.40
		39	1.08	1.13
		47	0.88	0.90
		55	0.88	0.93

Foot pad lesions

Tab. No. 10e (page 2)

Treatment	Tr. No.	Box No.	Evaluation	
			right foot	left foot
T5	5	5	0.45	0.53
		13	0.38	0.45
		21	0.98	0.95
		29	0.78	0.73
		32	0.93	0.88
		38	0.88	0.93
		46	1.00	0.95
		54	0.98	0.90
T6	6	6	0.93	0.83
		14	0.95	0.93
		22	0.88	0.90
		30	0.48	0.43
		37	0.90	0.98
		45	1.05	0.88
		53	1.10	1.15
T7	7	7	1.00	0.98
		15	0.80	0.75
		23	0.55	0.53
		31	0.80	1.00
		36	1.00	0.93
		44	0.95	0.90
		52	0.88	0.83
		60	0.93	0.95
T8	8	8	1.23	1.10
		16	0.63	0.60
		24	0.53	0.53
		35	0.98	0.85
		43	0.83	0.88
		51	1.08	0.98
		59	0.98	1.00

Litter scoring

Tab. No. 10f (page 1)

Treatment	Tr. No.	Box No.	Litter scoring	
			Day 35	Day 42
T1	1	1	2	3
		9	2	3
		17	3	3
		25	3	3
		34	3	3
		42	3	4
		50	3	3
		58	2	3
T2	2	2	3	3
		10	2	3
		18	2	3
		26	3	3
		33	3	3
		41	2	3
		49	2	3
		57	2	3
T3	3	3	3	3
		11	2	3
		19	3	3
		27	2	3
		40	2	3
		48	3	3
		56	2	3
T4	4	4	2	3
		12	2	3
		20	2	3
		28	2	3
		39	2	3
		47	3	3
		55	2	3

Litter scoring

Tab. No. 10f (page 2)

Treatment	Tr. No.	Box No.	Litter scoring	
			Day 35	Day 42
T5	5	5	2	3
		13	2	3
		21	3	3
		29	2	3
		32	3	3
		38	2	3
		46	2	3
		54	2	3
T6	6	6	2	3
		14	2	3
		22	3	3
		30	3	4
		37	3	3
		45	3	3
		53	2	3
		7	3	3
T7	7	15	2	3
		23	3	3
		31	3	3
		36	3	3
		44	2	3
		52	2	3
		60	3	3
T8	8	8	2	3
		16	2	3
		24	3	3
		35	2	3
		43	2	3
		51	2	3
		59	3	3