



# MEZINÁRODNÍ TESTOVÁNÍ DRŮBEŽE ÚSTRAŠICE

státní podnik

390 02 Tábor 2

Česká republika

## BROILER FEEDING TEST No. 1241

**XXXXX**

**XXXXX**

**30 July – 3 September 2024**

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**October 2024**  
Říjen 2024

## Material and methods

### Test term

**Beginning of the test:** 30 July 2024 (transfer to the chicken house)

**End of the test:** 3 September 2024

### Birds

In total there were 6240 day old chicks (males) of xxxxx. Day-old chicks were randomly distributed into 8 dietary treatments with 6 replicates per treatment and 130 chicken per replicate.

Origin 1-day old chicks:

breeder company – xxxxx

parent flock – xxxxx

age of the breeding flock – 51 weeks

### Experimental treatments:

Tr. No.	Tr.	Description
1	T1	xxxxxx
2	T2	xxxxxx
3	T3	xxxxxx
4	T4	xxxxxx
5	T5	xxxxxx
6	T6	xxxxxx
7	T7	xxxxxx
8	T8	xxxxxx

## **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 xxxxx. 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:

Lighting programme: Day 1 - 7	23 hours of light + 1 hour of darkness
Day 8 - 32	18 hours of light + 6 hours of darkness
Day 33 - 35	23 hours of light + 1 hour of darkness

Stocking density: 16 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.

On day 3 the chicken were vaccinated with xxxxx in the 1<sup>th</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> treatments (other treatments had feed with content coccidiostats).

## Feed

Feed was produced by International Poultry Testing Station Ústřašice

Day 1 - 10 Starter (BR 1)

Day 11 - 28 Grower (BR 2)

Day 29 - 35 Finisher (BR 3)

## Diet formulas:

Components (%)	Starter BR1	Grower BR1	Finisher BR2	Finisher BR3
	T1,2,3,5,6,7,8	T4	T1-T8	T1-T8
Wheat	33.51	32.91	35.00	39.00
Soybean extr. groats	38.00	37.30	36.00	31.00
Maize	21.00	21.80	21.32	21.90
Soybean oil	3.50	3.50	4.00	4.50
Limestone	1.32	1.34	1.00	0.90
MCP - monocalciumphosphate	1.12	1.10	1.10	1.06
Salt	0.30	0.30	0.30	0.30
Na <sub>2</sub> CO <sub>3</sub>	0.12	0.12	0.15	0.15
L-lysine	0.35	0.35	0.35	0.39
DL-methionin	0.08	0.08	0.08	0.10
L-threonin	0.20	0.20	0.20	0.20
xxxxx	-	0.50	-	-
AMV BR1 Plus	0.50	0.50	-	-
AMV BR2 Plus	-	-	0.50	-
AMV BR3 Plus	-	-	-	0.50
<b>Nutrient content</b>				
Crude protein (g/kg)	216.96	216.84	209.57	191.85
ME (MJ/kg)	12.16	12.17	12.53	12.79
Lysine (g/kg)	14.51	14.52	14.03	13.13
Methionine (g/kg)	6.19	6.20	5.71	5.39
Met. + Cys. (g/kg)	9.99	9.96	9.41	8.86
Ca (g/kg)	9.50	9.50	7.82	7.12
P str. (g/kg)	4.73	4.71	3.28	3.21
Na (g/kg)	2.13	2.14	2.18	2.11
Vitamin A (IU/kg)	13500	13500	10000	10000
Vitamin D3 (IU/kg)	5000	5000	5000	5000

Feed analyses for nutrient contents were performed at the laboratory of xxxxx

**Starter BR1:**

<b>Nutrient content</b>	<b>T1</b>	<b>T2</b>	<b>T3</b>	<b>T4</b>	<b>T5</b>	<b>T6</b>	<b>T7</b>	<b>T8</b>
Crude protein (g/kg)	213	209	212	213	219	218	221	213
Dry matter (%)	90.4	90.5	89.2	90.1	89.2	89.3	90.5	89.4
Fat (g/kg)	54.9	54.2	53.6	54.8	56.0	53.9	55.3	53.9
Crude fibre (g/kg)	25.4	25.3	26.1	24.7	28.2	24.9	27.1	25.2
Starch (g/kg)	424	419	413	421	383	399	402	391
Reducing sugars (g/kg)	36.7	39.4	42.5	22.4	42.5	43.1	43.4	42.5
Total methionine (g/kg)	4.75	4.63	4.84	4.57	4.84	5.00	4.64	4.79
ME (MJ/kg)	12.7	12.6	12.6	12.5	12.3	12.4	12.6	12.2
xxxxx (mg/kg)	-	-	-	-	-	122	121	-
xxxxx (mg/kg)	-	-	-	-	41.3	-	-	45.6

**Grower BR2:**

<b>Nutrient content</b>	<b>T1</b>	<b>T2</b>	<b>T3</b>	<b>T4</b>	<b>T5</b>	<b>T6</b>	<b>T7</b>	<b>T8</b>
Crude protein (g/kg)	213	214	211	216	216	216	216	212
Dry matter (%)	89.6	89.6	89.1	89.5	89.3	89.5	89.4	89.2
Fat (g/kg)	61.9	61.1	60.7	61.6	61.6	62.4	61.5	60.8
Crude fibre (g/kg)	29.8	26.6	27.3	27.8	30.2	28.2	27.8	29.3
Starch (g/kg)	405	410	419	416	416	435	402	391
Reducing sugars (g/kg)	43.6	46.2	47.0	44.9	49.8	52.5	47.8	48.5
Total methionine (g/kg)	4.94	5.66	5.56	5.31	6.36	5.88	5.59	5.78
ME (MJ/kg)	12.7	12.8	12.9	13.3	13.0	13.4	12.8	12.5
xxxxx (mg/kg)	-	-	-	-	-	129	127	-
xxxxx (mg/kg)	-	-	-	-	42.6	-	-	38.9

**Finisher BR3:**

<b>Nutrient content</b>	<b>T1</b>	<b>T2</b>	<b>T3</b>	<b>T4</b>	<b>T5</b>	<b>T6</b>	<b>T7</b>	<b>T8</b>
Crude protein (g/kg)	191	190	191	196	190	187	193	191
Dry matter (%)	89.3	89.7	89.6	89.3	89.4	89.5	89.4	89.5
Fat (g/kg)	64.3	65.5	64.8	64.5	64.5	65.3	64.8	64.3
Crude fibre (g/kg)	29.7	24.3	24.0	29.0	24.7	25.7	25.0	25.3
Starch (g/kg)	432	446	432	435	421	435	435	427
Reducing sugars (g/kg)	42.9	49.4	50.7	43.1	49.4	49.9	50.3	50.1
Total methionine (g/kg)	3.96	5.18	3.86	4.88	4.24	4.30	3.98	4.46
ME (MJ/kg)	12.9	13.3	13.0	13.1	12.8	13.0	13.1	12.9
xxxxx (mg/kg)	-	-	-	-	-	-	-	-
xxxxx (mg/kg)	-	-	-	-	-	-	-	-

## **Parameters recorded and methods applied**

### **Live weight**

Live weight was measured on day 1 and on day 10 (all the birds in each pen were weighed altogether). On day 28 of age birds were weighed individually, without fasting. On day 35 birds were weighed individually, after 12 hours of fasting.

### **Feed consumption**

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

### **Weight gain**

Weight gain per phase and average daily weight gains were calculated for the periods 1 – 10 days, 11 – 28 days, 29 – 35 days and for the overall experiment (1 – 35 days).

### **Feed conversion ratio**

Feed conversion ratio was calculated as feed consumption per 1 kg of live weight and per 1 kg of weight gain for the periods 1 – 10 days, 11 – 28 days, 29 – 35 days and for the overall experiment (1 – 35 days). 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 – 28 days, 29 – 35 days and 1 – 35 days.

### **Statistical analyses**

Performance results of live weight (on days 1, 10, 28 and 35) were statistically evaluated using the ANOVA single-factor model (Scheffe test, Duncan test) or nonparametric method (Kruskal-Wallis test).

## **Results**

Tab. No. **1 Hatchability**

**2 Performance results:**

**2a Body weight**

**2b Weight gain**

**2c Feed conversion per 1 kg of live weight**

**2d Feed conversion per 1 kg of weight gain**

**2e Feed consumption**

**3 Mortality**

**4 Foot pad lesions**

**5 Statistical analysis of body weight at the age of 35 days**

(average body weight, standard deviation, coefficient of variation)

**6 – 9 Statistical analyses of performance results**

**10 Performance results per pen:**

**10a Body weight**

**10b Weight gain**

**10c Feed conversion per 1 kg of live weight**

**10d Feed conversion per 1 kg of weight gain**

**10e Feed consumption**

**10f Foot pad lesions**

**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	96.10	86.70	90.20	780	62.50	46.15
T2	2				780		46.15
T3	3				780		46.15
T4	4				780		46.15
T5	5				780		46.15
T6	6				780		46.15
T7	7				780		46.35
T8	8				780		46.35



**Body weight per phases**

**Tab. No. 2a**

Treatment	Tr. No.	Day 1		Day 10		Day 28		Day 35	
		Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
			g		g		g		g
T1	1	780	46.15	779	306.35	753	1812.31	748	2437.03
T2	2	780	46.15	772	306.02	745	1824.38	743	2453.35
T3	3	780	46.15	780	304.23	750	1823.97	750	2435.05
T4	4	780	46.15	780	305.83	753	1825.06	750	2439.99
T5	5	780	46.15	779	303.08	754	1863.26	749	2460.87
T6	6	780	46.15	771	304.49	744	1837.35	741	2433.54
T7	7	780	46.35	771	304.28	745	1789.02	743	2393.80
T8	8	780	46.35	776	305.92	748	1860.86	742	2454.70

Weight gain per phases

Tab. No. 2b

Treatment	Tr. No.	Day 1 - 10		Day 11 - 28		Day 29 - 35		Day 1 – 35	
		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
T1	1	260.20	26.02	1505.96	83.66	624.72	89.25	2390.88	68.31
T2	2	259.87	25.99	1518.35	84.35	628.98	89.85	2407.20	68.78
T3	3	258.08	25.81	1519.74	84.43	611.08	87.30	2388.90	68.25
T4	4	259.68	25.97	1519.23	84.40	614.93	87.85	2393.83	68.40
T5	5	256.92	25.69	1560.19	86.68	597.61	85.37	2414.71	68.99
T6	6	258.34	25.83	1532.86	85.16	596.18	85.17	2387.38	68.21
T7	7	257.93	25.79	1484.74	82.49	604.78	86.40	2347.45	67.07
T8	8	259.58	25.96	1554.93	86.39	593.85	84.84	2408.36	68.81

**Feed conversion per 1 kg of live weight**

**Tab. No. 2c**

Treatment	Tr. No.	Feed conversion ratio		
		Day 10	Day 28	Day 35
		g/kg live weight	g/kg live weight	g/kg live weight
T1	1	938.99	1237.40	1439.11
T2	2	929.39	1230.46	1432.11
T3	3	922.04	1224.81	1424.82
T4	4	918.47	1219.81	1439.17
T5	5	941.16	1205.14	1431.40
T6	6	935.66	1228.49	1430.37
T7	7	888.37	1233.01	1424.47
T8	8	934.44	1211.00	1419.09

**Feed conversion per 1 kg of weight gain**

**Tab. No. 2d**

Treatment	Tr. No.	Feed conversion ratio			
		Day 1-10	Day 11-28	Day 29-35	Day 1-35
		g/kg weight gain	g/kg weight gain	g/kg weight gain	g/kg weight gain
T1	1	1105.68	1078.02	2046.02	1467.35
T2	2	1095.82	1074.03	2036.19	1460.24
T3	3	1086.93	1069.95	2040.76	1452.80
T4	4	1081.71	1065.12	2112.94	1467.34
T5	5	1110.38	1051.51	2161.97	1459.17
T6	6	1104.33	1072.84	2073.50	1458.74
T7	7	1049.37	1081.73	2008.37	1453.25
T8	8	1101.95	1056.40	2092.46	1446.98

**Feed consumption per phases**

**Tab. No. 2e**

Treatment	Tr. No.	Feed consumption			
		Starter (day 1-10)	Grower (day 11-28)	Finisher (day 29-35)	Total (day 1-35)
		kg	kg	kg	kg
T1	1	224.20	1513.40	954.90	2692.50
T2	2	220.30	1503.90	952.50	2676.70
T3	3	218.80	1509.80	935.30	2663.90
T4	4	219.10	1506.60	973.20	2698.90
T5	5	222.30	1518.70	967.30	2708.30
T6	6	220.60	1510.00	916.90	2647.50
T7	7	209.30	1485.70	905.30	2600.30
T8	8	222.20	1513.10	926.60	2661.90

**Mortality**

**Tab. No. 3**

Treat.	Tr. No.	Mortality in the period									Mortality according causes														
		Day 1 - 10		Day 11 - 28		Day 29 - 35		Day 1 - 35			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		birds	g	birds	g	birds	g	birds	g	%															
T1	1	1	120	8	5408	5	8480	14	14008	1.79											12			2	18
T2	2	8	787	9	7631	2	4106	19	12524	2.44									1	14			2	2	18
T3	3	0	0	12	9430	0	0	12	9430	1.54											11			1	18
T4	4	0	0	9	5735	3	4870	12	10605	1.54											10			2	18
T5	5	1	101	7	5174	5	9126	13	14401	1.67											11			2	18
T6	6	9	1008	9	6696	3	5939	21	13643	2.69											20			1	18
T7	7	9	1002	8	7951	2	4994	19	13947	2.44											18		1		18
T8	8	4	392	10	6179	6	13359	20	19930	2.56											16		4		18

**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)

**Foot pad lesions**

**Tab. No. 4**

<b>Treatment</b>	<b>Tr. No.</b>	<b>Evaluation</b>	
		<b>right foot</b>	<b>left foot</b>
T1	1	2.04	2.01
T4	4	2.01	1.98

**Statistical analysis - Body weight at 35 days of age**

**Tab. No. 5**

Treatment	Tr. No.	Cocks			
		No. of birds	Average body weight	Standard deviation	Coefficient of variation
			g/birds	g/birds	%
T1	1	748	2437.03	317.38	13.02
T2	2	743	2453.35	320.04	13.04
T3	3	750	2435.05	294.64	12.10
T4	4	750	2439.99	302.90	12.41
T5	5	749	2460.87	281.12	11.42
T6	6	741	2433.54	274.02	11.26
T7	7	743	2393.80	278.08	11.62
T8	8	742	2454.70	280.61	11.43



## Statistical analyses of performance results

Performance results were statistically evaluated using the ANOVA single-factor model (Scheffe test, Duncan 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. 6a**

Treat.	Tr. No.	No. of box	Average (g)	Standard deviation	Duncan test							
					T1	T2	T3	T4	T5	T6	T7	T8
T1	1	6	46.15	0.69		o	o	o	o	o	o	o
T2	2	6	46.15	0.69	1.000000		o	o	o	o	o	o
T3	3	6	46.15	0.69	1.000000	1.000000		o	o	o	o	o
T4	4	6	46.15	0.69	1.000000	1.000000	1.000000		o	o	o	o
T5	5	6	46.15	0.69	1.000000	1.000000	1.000000	1.000000		o	o	o
T6	6	6	46.15	0.69	1.000000	1.000000	1.000000	1.000000	1.000000		o	o
T7	7	6	46.35	0.40	0.623381	0.658498	0.654863	0.650339	0.644370	0.636202		o
T8	8	6	46.35	0.40	0.600504	0.654863	0.650339	0.644370	0.636202	0.623381	1.000000	

**Body weight - day 10**

**Tab. No. 6b**

Treat.	Tr. No.	No. of box	Average (g)	Standard deviation	Duncan test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	6	306.35	5.16		o	o	o	o	o	o	o	o
T2	2	6	306.02	4.44	0.898830		o	o	o	o	o	o	o
T3	3	6	304.23	4.51	0.480497	0.546052		o	o	o	o	o	o
T4	4	6	305.83	2.22	0.856923	0.945400	0.574176		o	o	o	o	o
T5	5	6	303.08	6.82	0.280761	0.327043	0.654154	0.345367		o	o	o	o
T6	6	6	304.49	3.26	0.524252	0.590979	0.925058	0.602363	0.620071		o	o	o
T7	7	6	304.28	3.06	0.484741	0.549634	0.986006	0.570962	0.662490	0.933533		o	o
T8	8	6	305.92	4.31	0.876507	0.968925	0.562293	0.972205	0.337925	0.602188	0.563588		o

**Body weight - day 28**

**Tab. No. 6c**

Treat.	Tr. No.	No. of birds	Average (g)	Standard deviation	Kruskal - Wallis test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	753	1812.31	234.67		o	o	o	***	o	o	***	***
T2	2	745	1824.38	231.48	1.000000		o	o	*	o	**	*	*
T3	3	750	1823.97	229.71	1.000000	1.000000		o	*	o	**	o	o
T4	4	753	1825.06	235.93	1.000000	1.000000	1.000000		*	o	**	o	o
T5	5	754	1863.26	233.87	0.000399	0.010148	0.036932	0.046649		o	***	o	o
T6	6	744	1837.35	216.02	1.000000	1.000000	1.000000	1.000000	0.137160		***	o	o
T7	7	745	1789.02	213.53	0.123170	0.008041	0.001906	0.001428	0.000000	0.000300		***	***
T8	8	748	1860.86	223.71	0.000792	0.018194	0.063163	0.079062	1.000000	0.235078	0.000000		***

**Body weight - day 35**

**Tab. No. 6d**

Treat.	Tr. No.	No. of birds	Average (g)	Standard deviation	Kruskal - Wallis test							
					T1	T2	T3	T4	T5	T6	T7	T8
T1	1	748	2437.03	317.38		o	o	o	o	o	*	o
T2	2	743	2453.35	320.04	1.000000		o	o	o	o	***	o
T3	3	750	2435.05	294.64	1.000000	1.000000		o	o	o	o	o
T4	4	750	2439.99	302.90	1.000000	1.000000	1.000000		o	o	**	o
T5	5	749	2460.87	281.12	1.000000	1.000000	1.000000	1.000000		o	***	o
T6	6	741	2433.54	274.02	1.000000	1.000000	1.000000	1.000000	0.762979		o	o
T7	7	743	2393.80	278.08	0.016081	0.000154	0.105826	0.001407	0.000030	0.210490		***
T8	8	742	2454.70	280.61	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	0.000279	

Average weight gain (day 1-10)

Tab. No. 7a

Treat.	Tr. No.	No. of box	Average (g)	Standard deviation	Duncan test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	6	26.02	0.51		o	o	o	o	o	o	o	o
T2	2	6	25.99	0.41	0.896433		o	o	o	o	o	o	o
T3	3	6	25.81	0.47	0.464787	0.529698		o	o	o	o	o	o
T4	4	6	25.97	0.19	0.847145	0.939625	0.565089		o	o	o	o	o
T5	5	6	25.69	0.64	0.269515	0.315677	0.667223	0.342059		o	o	o	o
T6	6	6	25.83	0.33	0.514420	0.582158	0.917591	0.616943	0.611761		o	o	o
T7	7	6	25.79	0.29	0.440007	0.503747	0.953660	0.539898	0.688705	0.879865		o	o
T8	8	6	25.96	0.45	0.824645	0.913694	0.576046	0.967793	0.352135	0.621965	0.554334		o

Average weight gain (day 11-28)

Tab. No. 7b

Treat.	Tr. No.	No. of box	Average (g)	Standard deviation	Duncan test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	6	83.67	4.15		o	o	o	o	o	o	o	o
T2	2	6	84.35	3.75	0.717374		o	o	o	o	o	o	o
T3	3	6	84.44	3.49	0.711154	0.965011		o	o	o	o	o	o
T4	4	6	84.40	2.83	0.714263	0.977101	0.984440		o	o	o	o	o
T5	5	6	86.71	3.54	0.168162	0.279070	0.278576	0.282209		o	o	o	o
T6	6	6	85.18	2.84	0.479306	0.690850	0.694915	0.699545	0.449043		o	o	o
T7	7	6	82.49	2.38	0.534411	0.356920	0.362781	0.360521	0.058758	0.216964		o	o
T8	8	6	86.37	2.56	0.214008	0.344711	0.338009	0.346355	0.859554	0.528404	0.078686		o

Average weight gain (day 29-35)

Tab. No. 7c

Treat.	Tr. No.	No. of box	Average (g)	Standard deviation	Duncan test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	6	89.33	11.41		o	o	o	o	o	o	o	o
T2	2	6	89.91	12.53	0.914822		o	o	o	o	o	o	o
T3	3	6	87.27	7.46	0.725025	0.663315		o	o	o	o	o	o
T4	4	6	87.82	10.62	0.782447	0.719682	0.920878		o	o	o	o	o
T5	5	6	85.29	8.30	0.515099	0.463574	0.733724	0.676404		o	o	o	o
T6	6	6	85.21	8.40	0.514021	0.461461	0.733606	0.674736	0.988791		o	o	o
T7	7	6	86.39	7.32	0.627826	0.570305	0.871492	0.806876	0.840330	0.840060		o	o
T8	8	6	84.88	7.58	0.485963	0.434496	0.699884	0.641753	0.944712	0.951580	0.803545		o

Average weight gain (day 1-35)

Tab. No. 7d

Treat.	Tr. No.	No. of box	Average (g)	Standard deviation	Duncan test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	6	68.33	2.26		o	o	o	o	o	o	o	o
T2	2	6	68.79	0.99	0.602204		o	o	o	o	o	o	o
T3	3	6	68.26	1.45	0.930023	0.560916		o	o	o	o	o	o
T4	4	6	68.39	1.22	0.939287	0.631319	0.878105		o	o	o	o	o
T5	5	6	68.99	0.99	0.478600	0.816649	0.439447	0.511214		o	*	o	o
T6	6	6	68.23	1.97	0.913060	0.552832	0.976758	0.862625	0.430125		o	o	o
T7	7	6	67.07	1.07	0.169685	0.071766	0.180266	0.158994	0.048999	0.164697		o	o
T8	8	6	68.81	0.68	0.595335	0.974474	0.551142	0.631260	0.829317	0.540866	0.071088		o

FCR 10

Tab. No. 8a

Treat.	Tr. No.	No. of box	Average (g)	Standard deviation	Duncan test							
					T1	T2	T3	T4	T5	T6	T7	T8
T1	1	6	938.91	22.24		o	o	o	o	o	**	o
T2	2	6	929.71	28.09	0.563963		o	o	o	o	*	o
T3	3	6	922.00	30.23	0.300538	0.592594		o	o	o	*	o
T4	4	6	918.47	25.55	0.218565	0.464628	0.806236		o	o	*	o
T5	5	6	941.59	28.92	0.851948	0.466748	0.238162	0.169348		o	**	o
T6	6	6	935.74	22.81	0.826100	0.694251	0.388631	0.290138	0.703473		**	o
T7	7	6	888.35	16.38	0.002783	0.010110	0.030336	0.041441	0.001834	0.004505		**
T8	8	6	934.26	20.60	0.762282	0.751822	0.425111	0.322133	0.645612	0.917728	0.005229	

FCR 28

Tab. No. 8b

Treat.	Tr. No.	No. of box	Average (g)	Standard deviation	Duncan test							
					T1	T2	T3	T4	T5	T6	T7	T8
T1	1	6	1238.62	35.07		o	o	o	o	o	o	o
T2	2	6	1232.12	52.11	0.765892		o	o	o	o	o	o
T3	3	6	1225.36	30.82	0.567302	0.756437		o	o	o	o	o
T4	4	6	1220.57	37.04	0.443689	0.609681	0.814546		o	o	o	o
T5	5	6	1205.57	30.17	0.170469	0.259880	0.381736	0.491444		o	o	o
T6	6	6	1229.00	35.82	0.670944	0.878472	0.858473	0.698923	0.311950		o	o
T7	7	6	1233.17	12.79	0.789531	0.959364	0.730311	0.586857	0.247521	0.848674		o
T8	8	6	1211.75	35.19	0.260144	0.379216	0.532345	0.665769	0.762293	0.445657	0.363329	

FCR 35

Tab. No. 8c

Treat.	Tr. No.	No. of box	Average (g)	Standard deviation	Duncan test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	6	1439.41	24.85		o	o	o	o	o	o	o	o
T2	2	6	1432.09	10.54	0.593624		o	o	o	o	o	o	o
T3	3	6	1424.93	20.98	0.329240	0.615684		o	o	o	o	o	o
T4	4	6	1439.35	16.82	0.996579	0.572407	0.323057		o	o	o	o	o
T5	5	6	1431.28	17.46	0.568081	0.949872	0.643957	0.556315		o	o	o	o
T6	6	6	1430.61	32.57	0.546252	0.914539	0.659280	0.539219	0.958435		o	o	o
T7	7	6	1424.71	29.84	0.327674	0.613243	0.986124	0.323656	0.644821	0.667428		o	o
T8	8	6	1419.20	14.22	0.182992	0.385015	0.676003	0.179975	0.407756	0.423259	0.668357		o

**FCR per 1 kg of weight gain 1 – 10 day**

**Tab. No. 9a**

Treat.	Tr. No.	No. of box	Average (g)	Standard deviation	Duncan test							
					T1	T2	T3	T4	T5	T6	T7	T8
T1	1	6	1105.62	24.65		o	o	o	o	o	**	o
T2	2	6	1096.26	34.97	0.616180		o	o	o	o	*	o
T3	3	6	1086.88	33.60	0.327024	0.578094		o	o	o	*	o
T4	4	6	1081.69	29.36	0.218490	0.418078	0.758013		o	o	o	o
T5	5	6	1111.03	36.75	0.748351	0.439987	0.214393	0.136472		o	**	o
T6	6	6	1104.38	26.70	0.941317	0.651720	0.348594	0.235383	0.711714		**	o
T7	7	6	1049.37	19.76	0.004420	0.012648	0.038913	0.060558	0.002046	0.004850		**
T8	8	6	1101.74	20.95	0.829195	0.745208	0.409067	0.282940	0.618821	0.875381	0.006459	

**FCR per 1 kg of weight gain 11 – 28 day**

**Tab. No. 9b**

Treat.	Tr. No.	No. of box	Average (g)	Standard deviation	Duncan test							
					T1	T2	T3	T4	T5	T6	T7	T8
T1	1	6	1079.12	31.50		o	o	o	o	o	o	o
T2	2	6	1075.50	46.48	0.846008		o	o	o	o	o	o
T3	3	6	1070.49	28.60	0.676026	0.801206		o	o	o	o	o
T4	4	6	1065.78	32.54	0.527996	0.637642	0.800242		o	o	o	o
T5	5	6	1051.86	26.80	0.210689	0.271588	0.366829	0.484249		o	o	o
T6	6	6	1073.27	34.01	0.768706	0.904632	0.881455	0.706400	0.311293		o	o
T7	7	6	1081.83	11.93	0.884403	0.750446	0.591879	0.455220	0.173085	0.678492		o
T8	8	6	1057.09	34.07	0.305461	0.383743	0.500425	0.641080	0.779145	0.433054	0.255781	



**FCR per 1 kg of weight gain 29 – 35 day**

**Tab. No. 9c**

Treat.	Tr. No.	No. of box	Average (g)	Standard deviation	Duncan test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	6	2068.48	252.88		o	o	o	o	o	o	o	o
T2	2	6	2072.14	319.26	0.977834		o	o	o	o	o	o	o
T3	3	6	2055.22	202.37	0.919732	0.904402		o	o	o	o	o	o
T4	4	6	2139.04	259.26	0.636465	0.646116	0.580747		o	o	o	o	o
T5	5	6	2178.03	200.09	0.470148	0.477885	0.423719	0.766824		o	o	o	o
T6	6	6	2086.55	174.68	0.897938	0.912779	0.830368	0.708380	0.530004		o	o	o
T7	7	6	2021.14	183.44	0.735958	0.726456	0.795454	0.442437	0.311454	0.661326		o	o
T8	8	6	2104.54	174.80	0.805007	0.817564	0.741912	0.792989	0.600545	0.891143	0.582645		o

**FCR per 1 kg of weight gain 1 – 35 day**

**Tab. No. 9d**

Treat.	Tr. No.	No. of box	Average (g)	Standard deviation	Duncan test								
					T1	T2	T3	T4	T5	T6	T7	T8	
T1	1	6	1467.68	25.90		o	o	o	o	o	o	o	o
T2	2	6	1460.21	10.67	0.597588		o	o	o	o	o	o	o
T3	3	6	1452.93	21.52	0.340685	0.628370		o	o	o	o	o	o
T4	4	6	1467.53	17.32	0.990981	0.581334	0.339789		o	o	o	o	o
T5	5	6	1459.04	17.73	0.556473	0.929837	0.677195	0.548780		o	o	o	o
T6	6	6	1459.01	33.74	0.564186	0.932770	0.667449	0.561745	0.997921		o	o	o
T7	7	6	1453.50	30.57	0.353963	0.647909	0.965476	0.351113	0.695357	0.678106		o	o
T8	8	6	1447.09	14.96	0.188388	0.391271	0.660288	0.187371	0.427144	0.417478	0.650835		o

**Performance results per replicate**

**Body weight per phases**

**Tab. No. 10a (page 1)**

Treatment	Tr. No.	Pen	Day 1		Day 10		Day 28		Day 35	
			Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
				g		g		g		g
T1	1	4	130	46.92	130	301.54	127	1705.12	126	2299.13
		12	130	45.77	130	311.54	125	1857.52	124	2499.11
		20	130	46.15	130	305.38	124	1775.48	122	2524.10
		41	130	46.54	129	303.88	125	1755.92	125	2430.88
		49	130	45.00	130	301.92	126	1887.78	126	2450.00
		57	130	46.54	130	313.85	126	1892.22	125	2422.56
T2	2	5	130	46.92	130	308.85	126	1776.03	126	2466.59
		13	130	45.77	128	300.78	122	1779.67	121	2480.25
		21	130	46.15	129	310.85	123	1794.39	123	2463.09
		40	130	46.54	128	302.73	125	1772.56	125	2444.16
		48	130	45.00	130	302.69	126	1906.83	126	2387.62
		56	130	46.54	127	310.24	123	1916.42	122	2480.49
T3	3	6	130	46.92	130	306.15	125	1786.16	125	2388.80
		14	130	45.77	130	305.38	126	1776.11	126	2438.97
		22	130	46.15	130	297.69	124	1785.40	124	2391.77
		39	130	46.54	130	308.08	125	1837.60	125	2510.72
		47	130	45.00	130	308.46	124	1948.71	124	2478.47
		55	130	46.54	130	299.62	126	1811.03	126	2401.83
T4	4	7	130	46.92	130	305.00	126	1809.37	126	2487.94
		15	130	45.77	130	306.15	124	1840.40	123	2387.15
		23	130	46.15	130	307.69	126	1803.73	126	2403.65
		38	130	46.54	130	306.15	126	1759.44	125	2451.52
		46	130	45.00	130	301.92	126	1908.65	125	2419.84
		54	130	46.54	130	308.08	125	1829.04	125	2488.88

**Body weight per phases**

**Tab. No. 10a (page 2)**

Treatment	Tr. No.	Pen	Day 1		Day 10		Day 28		Day 35	
			Birds	Average body weight	Birds	Average body weight	Birds	Average body weight	Birds	Average body weight
				g		g		g		g
T5	5	8	130	46.92	130	310.77	126	1900.79	126	2506.27
		16	130	45.77	130	293.85	127	1884.33	126	2487.22
		24	130	46.15	130	301.15	126	1817.30	126	2433.49
		37	130	46.54	130	311.54	127	1804.33	126	2415.56
		45	130	45.00	129	300.00	122	1959.92	122	2446.31
		53	130	46.54	130	301.15	126	1816.27	123	2476.26
T6	6	9	130	46.92	130	303.46	126	1787.46	126	2301.35
		17	130	45.77	128	305.47	124	1890.56	124	2436.13
		25	130	46.15	129	303.88	124	1808.55	123	2447.48
		36	130	46.54	129	300.39	125	1774.88	125	2448.72
		44	130	45.00	128	303.52	121	1885.04	121	2490.91
		52	130	46.54	127	310.24	124	1880.08	122	2480.90
T7	7	10	130	46.92	129	310.08	124	1774.27	124	2372.90
		18	130	45.77	128	303.91	123	1802.85	123	2337.97
		26	130	46.15	129	301.94	125	1827.60	125	2397.20
		35	130	46.54	129	303.88	125	1712.64	124	2396.21
		43	130	46.15	128	304.30	125	1798.88	125	2407.76
		51	130	46.54	128	301.56	123	1818.46	122	2451.07
T8	8	11	130	46.92	130	307.31	123	1876.91	122	2465.00
		19	130	45.77	130	308.08	127	1891.34	127	2441.10
		27	130	46.15	129	309.69	124	1813.71	122	2479.75
		34	130	46.54	129	299.22	124	1788.47	124	2432.98
		42	130	46.15	129	309.30	125	1893.20	124	2481.45
		50	130	46.54	129	301.94	125	1900.32	123	2428.62

Weight gain per phases (WG) and daily weight gain

Tab. No. 10b (page 1)

Treatment	Tr. No.	Box	Day 1 - 10		Day 11 - 28		Day 29 - 35		Day 1 - 35	
			WG	DWG	WG	DWG	WG	DWG	WG	DWG
			g	g	g	g	g	g	g	g
T1	1	4	254.62	25.46	1403.58	77.98	594.01	84.86	2252.21	64.35
		12	265.77	26.58	1545.98	85.89	641.59	91.66	2453.34	70.10
		20	259.23	25.92	1470.10	81.67	748.61	106.94	2477.95	70.80
		41	257.34	25.73	1452.04	80.67	674.96	96.42	2384.34	68.12
		49	256.92	25.69	1585.85	88.10	562.22	80.32	2405.00	68.71
		57	267.31	26.73	1578.38	87.69	530.34	75.76	2376.02	67.89
T2	2	5	261.93	26.19	1467.19	81.51	690.56	98.65	2419.67	69.13
		13	255.01	25.50	1478.89	82.16	700.58	100.08	2434.48	69.56
		21	264.70	26.47	1483.54	82.42	668.70	95.53	2416.94	69.06
		40	256.19	25.62	1469.83	81.66	671.60	95.94	2397.62	68.50
		48	257.69	25.77	1604.13	89.12	480.79	68.68	2342.62	66.93
		56	263.70	26.37	1606.19	89.23	564.07	80.58	2433.95	69.54
T3	3	6	259.23	25.92	1480.01	82.22	602.64	86.09	2341.88	66.91
		14	259.61	25.96	1470.73	81.71	662.86	94.69	2393.20	68.38
		22	251.54	25.15	1487.71	82.65	606.37	86.62	2345.62	67.02
		39	261.54	26.15	1529.52	84.97	673.12	96.16	2464.18	70.41
		47	263.46	26.35	1640.25	91.12	529.76	75.68	2433.47	69.53
		55	253.08	25.31	1511.42	83.97	590.79	84.40	2355.29	67.29
T4	4	7	258.08	25.81	1504.37	83.58	678.57	96.94	2441.02	69.74
		15	260.38	26.04	1534.25	85.24	546.75	78.11	2341.38	66.90
		23	261.54	26.15	1496.04	83.11	599.92	85.70	2357.50	67.36
		38	259.61	25.96	1453.29	80.74	692.08	98.87	2404.98	68.71
		46	256.92	25.69	1606.73	89.26	511.19	73.03	2374.84	67.85
		54	261.54	26.15	1520.96	84.50	659.84	94.26	2442.34	69.78

Weight gain per phases (WG) and daily weight gain

Tab. No. 10b (page 2)

Treatment	Tr. No.	Box	Day 1 - 10		Day 11 - 28		Day 29 - 35		Day 1 - 35	
			WG	DWG	WG	DWG	WG	DWG	WG	DWG
			g	g	g	g	g	g	g	g
T5	5	8	263.85	26.38	1590.02	88.33	605.48	86.50	2459.35	70.27
		16	248.08	24.81	1590.48	88.36	602.89	86.13	2441.45	69.76
		24	255.00	25.50	1516.15	84.23	616.19	88.03	2387.34	68.21
		37	265.00	26.50	1492.79	82.93	611.22	87.32	2369.02	67.69
		45	255.00	25.50	1659.92	92.22	486.39	69.48	2401.31	68.61
		53	254.61	25.46	1515.12	84.17	659.99	94.28	2429.72	69.42
T6	6	9	256.54	25.65	1484.00	82.44	513.89	73.41	2254.43	64.41
		17	259.70	25.97	1585.10	88.06	545.56	77.94	2390.36	68.30
		25	257.73	25.77	1504.67	83.59	638.93	91.28	2401.33	68.61
		36	253.85	25.38	1474.49	81.92	673.84	96.26	2402.18	68.63
		44	258.52	25.85	1581.53	87.86	605.87	86.55	2445.91	69.88
		52	263.70	26.37	1569.84	87.21	600.82	85.83	2434.36	69.55
T7	7	10	263.16	26.32	1464.20	81.34	598.63	85.52	2325.98	66.46
		18	258.14	25.81	1498.94	83.27	535.12	76.45	2292.20	65.49
		26	255.79	25.58	1525.66	84.76	569.60	81.37	2351.05	67.17
		35	257.34	25.73	1408.76	78.26	683.57	97.65	2349.67	67.13
		43	258.15	25.81	1494.58	83.03	608.88	86.98	2361.61	67.47
		51	255.02	25.50	1516.89	84.27	632.61	90.37	2404.53	68.70
T8	8	11	260.39	26.04	1569.60	87.20	588.09	84.01	2418.08	69.09
		19	262.31	26.23	1583.26	87.96	549.76	78.54	2395.33	68.44
		27	263.54	26.35	1504.02	83.56	666.04	95.15	2433.60	69.53
		34	252.68	25.27	1489.24	82.74	644.52	92.07	2386.44	68.18
		42	263.15	26.32	1583.90	87.99	588.25	84.04	2435.30	69.58
		50	255.40	25.54	1598.38	88.80	528.30	75.47	2382.08	68.06

Feed conversion ratio (Feed consum. per 1 kg of live weight)

Tab. No. 10c (page 1)

Treatment	Tr. No.	Box	Feed conversion ratio		
			Day 10	Day 28	Day 35
			g/kg live weight	g/kg live weight	g/kg live weight
T1	1	4	951.53	1282.63	1456.67
		12	958.02	1224.87	1434.50
		20	914.36	1260.72	1398.63
		41	907.93	1258.90	1433.90
		49	957.96	1186.73	1440.66
		57	943.63	1217.85	1472.11
T2	2	5	916.56	1279.67	1443.54
		13	946.37	1285.69	1421.52
		21	888.59	1240.57	1418.26
		40	964.75	1249.10	1433.83
		48	947.90	1162.38	1442.95
		56	914.06	1175.33	1432.43
T3	3	6	894.47	1250.60	1447.38
		14	904.28	1248.28	1408.61
		22	950.90	1236.39	1436.84
		39	928.84	1244.77	1416.08
		47	962.59	1185.35	1444.52
		55	890.89	1186.78	1396.18
T4	4	7	895.33	1239.52	1420.92
		15	886.93	1201.02	1446.86
		23	955.00	1247.16	1466.51
		38	927.14	1247.32	1423.29
		46	935.03	1153.54	1442.67
		54	911.36	1234.87	1435.87

Feed conversion per 1 kg of live weight

Tab. No. 10c (page 2)

Treatment	Tr. No.	Box	Feed conversion ratio		
			Day 10	Day 28	Day 35
			g/kg live weight	g/kg live weight	g/kg live weight
T5	5	8	935.64	1223.91	1454.60
		16	963.35	1187.04	1422.24
		24	952.75	1224.77	1449.61
		37	886.42	1222.55	1409.53
		45	948.43	1151.75	1421.90
		53	962.96	1223.38	1429.79
T6	6	9	955.64	1227.68	1456.60
		17	923.45	1217.62	1458.53
		25	956.52	1254.89	1442.93
		36	921.09	1284.63	1442.91
		44	954.50	1185.89	1376.15
		52	903.26	1203.30	1406.53
T7	7	10	892.43	1246.29	1420.07
		18	861.36	1240.92	1465.22
		26	893.47	1225.80	1457.58
		35	882.68	1246.01	1392.31
		43	911.55	1216.92	1407.22
		51	888.58	1223.06	1405.86
T8	8	11	918.65	1181.67	1426.30
		19	956.30	1169.03	1400.48
		27	941.18	1245.85	1417.34
		34	922.31	1259.04	1424.50
		42	958.05	1203.82	1406.78
		50	909.04	1211.07	1439.80

**Feed conversion per 1 kg of weight gain**

**Tab. No. 10d (page 1)**

Treatment	Tr. No.	Box	Feed conversion ratio			
			Day 1-10	Day 11-28	Day 29-35	Day 1-35
			g/kg weight gain	g/kg weight gain	g/kg weight gain	g/kg weight gain
T1	1	4	1126.87	1114.66	1970.23	1487.21
		12	1123.01	1062.74	2062.90	1461.78
		20	1077.14	1101.56	1746.86	1425.52
		41	1073.05	1101.59	1902.33	1462.43
		49	1125.75	1033.51	2319.31	1467.83
		57	1107.92	1060.63	2409.22	1501.32
T2	2	5	1080.75	1119.47	1875.65	1471.91
		13	1118.45	1123.98	1780.45	1449.34
		21	1044.58	1085.07	1912.46	1446.16
		40	1142.03	1085.09	1934.48	1462.23
		48	1113.43	1012.36	2593.27	1470.80
		56	1078.34	1027.02	2336.55	1460.83
T3	3	6	1056.37	1096.04	2048.32	1476.88
		14	1063.71	1092.71	1851.05	1435.82
		22	1125.37	1076.08	2048.14	1465.72
		39	1094.12	1088.57	1900.40	1443.19
		47	1127.01	1030.68	2428.07	1471.85
		55	1054.72	1038.87	2055.35	1424.08
T4	4	7	1058.11	1088.24	1918.13	1448.54
		15	1042.84	1052.28	2308.83	1475.68
		23	1123.51	1083.52	2143.14	1495.57
		38	1093.34	1085.78	1891.55	1451.26
		46	1098.80	1005.00	2563.62	1470.38
		54	1073.54	1079.84	2008.97	1463.75



**Feed conversion per 1 kg of weight gain**

**Tab. No. 10d (page 2)**

Treatment	Tr. No.	Box	Feed conversion ratio			
			Day 1-10	Day 11-28	Day 29-35	Day 1-35
			g/kg weight gain	g/kg weight gain	g/kg weight gain	g/kg weight gain
T5	5	8	1102.03	1070.64	2199.50	1482.63
		16	1141.09	1036.88	2179.63	1449.11
		24	1125.17	1066.27	2130.35	1477.97
		37	1042.10	1069.97	1984.25	1437.45
		45	1116.81	1003.55	2548.03	1449.55
		53	1138.98	1063.86	2026.40	1457.54
T6	6	9	1130.42	1065.30	2276.45	1487.18
		17	1088.17	1068.02	2316.33	1487.21
		25	1128.81	1092.94	1994.92	1471.41
		36	1090.90	1128.70	1872.25	1471.38
		44	1122.55	1029.74	1991.54	1402.58
		52	1065.45	1054.90	2067.77	1434.28
T7	7	10	1052.46	1089.87	1953.39	1449.34
		18	1015.86	1095.29	2247.04	1495.35
		26	1055.61	1078.66	2226.12	1486.60
		35	1043.24	1089.42	1768.44	1420.36
		43	1076.45	1063.32	1983.97	1435.29
		51	1052.61	1074.40	1947.90	1434.05
T8	8	11	1084.18	1028.87	2242.15	1454.76
		19	1123.17	1013.46	2215.70	1427.37
		27	1106.98	1083.56	1899.03	1444.98
		34	1093.19	1104.10	1899.40	1452.92
		42	1127.22	1046.48	2075.78	1433.98
		50	1075.70	1066.04	2295.18	1468.56

**Feed consumption per phases**

**Tab. No. 10e (page 1)**

Treatment	Tr. No.	Box	Feed consumption			
			Starter (D 1-10)	Grower (D 11-28)	Finisher (D 29-35)	Total (D 1-35)
			kg	kg	kg	kg
T1	1	4	37.30	247.20	148.10	432.60
		12	38.80	254.00	164.50	457.30
		20	36.30	250.90	157.60	444.80
		41	35.70	248.60	160.50	444.80
		49	37.60	253.30	164.30	455.20
		57	38.50	259.40	159.90	457.80
T2	2	5	36.80	256.80	163.20	456.80
		13	36.60	252.50	151.50	440.60
		21	35.70	248.10	157.30	441.10
		40	37.60	246.60	162.40	446.60
		48	37.30	251.40	157.10	445.80
		56	36.30	248.50	161.00	445.80
T3	3	6	35.60	252.10	154.30	442.00
		14	35.90	251.80	154.60	442.30
		22	36.80	246.70	154.00	437.50
		39	37.20	258.90	159.90	456.00
		47	38.60	256.90	159.50	455.00
		55	34.70	243.40	153.00	431.10
T4	4	7	35.50	255.00	164.00	454.50
		15	35.30	249.40	156.10	440.80
		23	38.20	252.60	162.00	452.80
		38	36.90	247.70	162.20	446.80
		46	36.70	248.00	163.20	447.90
		54	36.50	253.90	165.70	456.10

**Feed consumption per phases**

**Tab. No. 10e (page 2)**

Treatment	Tr. No.	Box	Feed consumption			
			Starter (D 1-10)	Grower (D 11-28)	Finisher (D 29-35)	Total (D 1-35)
			kg	kg	kg	kg
T5	5	8	37.80	263.70	167.80	469.30
		16	36.80	253.80	165.70	456.30
		24	37.30	250.60	165.40	453.30
		37	35.90	251.40	151.70	439.00
		45	36.80	248.10	151.20	436.10
		53	37.70	251.10	165.50	454.30
T6	6	9	37.70	247.00	147.40	432.10
		17	36.30	257.00	156.70	450.00
		25	37.60	252.50	157.10	447.20
		36	35.80	257.70	157.70	451.20
		44	37.30	243.90	146.00	427.20
		52	35.90	251.90	152.00	439.80
T7	7	10	35.80	248.10	145.00	428.90
		18	33.70	251.00	147.90	432.60
		26	34.90	254.50	158.50	447.90
		35	34.70	240.10	151.70	426.50
		43	35.70	245.00	151.00	431.70
		51	34.50	247.00	151.20	432.70
T8	8	11	36.70	246.80	161.30	444.80
		19	38.30	249.20	154.70	442.20
		27	37.70	250.50	156.40	444.60
		34	35.70	253.10	151.80	440.60
		42	38.30	253.80	152.80	444.90
		50	35.50	259.70	149.60	444.80

**Foot pad lesions****Tab. No. 10f**

<b>Treatment</b>	<b>Tr. No.</b>	<b>Box No.</b>	<b>Evaluation</b>	
			<b>right foot</b>	<b>left foot</b>
T1	1	4	0.96	0.88
		12	3.09	3.12
		20	2.30	2.36
		41	1.88	1.82
		49	2.10	2.09
		57	1.94	1.84
T4	4	7	1.80	1.82
		15	1.86	1.95
		23	2.60	2.55
		38	1.63	1.45
		46	2.00	2.03
		54	2.14	2.08