



MEZINÁRODNÍ TESTOVÁNÍ DRŮBEŽE ÚSTRAŠICE

státní podnik

390 02 Tábor 2

Česká republika

BROILER FEEDING TEST No. 1216

Comparison of growth parameters genotypes of chickens



12 August – 15 September 2020

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Material and methods

Test term

Beginning of the test: 21 July 2020 (setting in the incubator)
 12 August 2020 (transfer to the chicken house)

End of the test: 15 September 2020

Experimental treatments:

Sample	Cross	Organization	Age of the parent flock
1			42
2			54
3			55
4			54

Material:

Sample	Cross	Number of hatching eggs	Number of chicken	Number of pen	Number of chicken per pen
1		2520	1890	14	135
2		2520	1890	14	135
3		2520	1890	14	135
4		2520	1890	14	135

Housing system:

Chickens were kept in the windowless chicken house with full climatic control, on deep litter. Drinking water was supplied ad libitum by nipple drinkers. Each pen was equipped with manually filled tube feeders. Bedding material was wood shaving.

Lighting programme: Day 1 - 7 23 hours of light + 1 hour of darkness
 Day 8 - 35 12L - 1D - 3L - 4D - 3L - 1D

Stocking density: 16,6 broilers per square meter

Veterinary precautions:

The chicken house was disinfected by [REDACTED] before the chick placement. On the first days old chickens was applied the water solution of permanganate. On days 1 and 12 chickens were vaccinated with [REDACTED].

Feed: Feed was produced in [REDACTED]

- Day 1 - 10 Starter (BR 1)
- Day 11- 21 Grower (BR2-A)
- Day 22 - 28 Grower (BR 2-B)
- Day 29 - 35 Finisher (BR 3)

Diet formulas

Components (%)	Starter BR1	Grower BR2-A	Grower BR2-B	Finisher BR3
Wheat	41.42	50.65	54.04	59.26
Maize	15.00	13.00	13.00	10.00
Soybean extr. groats	31.5	29.6	26.15	23.20
Soybean extr.	4.00	-	-	-
Fish meal	1.50	-	-	-
MCP - monocalciumphosphate	0.47	0.32	0.20	0.17
Calcium carbonate	1.47	1.21	1.20	1.13
Salt	0.28	0.24	0.22	0.20
Soybean oil	2.46	1.00	1.00	2.09
Animal fat	-	2.27	2.48	2.50
Sodium sulfate	0.13	0.10	0.12	0.12
Premixes of amino acid	0.92	0.84	0.83	0.86
Vitamin and mineral supplement	0.85	0.77	0.76	0.47
Nutrient content				
Crude protein (g/kg)	23.36	20.89	19.69	18.66
Fat (g/kg)	5.16	5.11	5.32	6.34
Lysine (g/kg)	1.30	1.14	1.08	1.02
Methionine (g/kg)	0.63	0.55	0.51	0.49
Ca (g/kg)	0.94	0.78	0.75	0.70
P (g/kg)	0.45	0.39	0.36	0.35
Vitamin A (IU/kg)	15000	10000	10000	10000
Vitamin D3 (IU/kg)	5000	5000	5000	5000
ME (MJ/kg)	12.40	12.68	12.90	13.35

Parameters recorded and methods applied

Live weight

Live weight was measured on days 1 (all the birds in each pen were weighed altogether), 7, 14, 28 (all the birds in each pen were weighed individually, without fasting) and 35 (all the birds in each pen were weighed individually, after 12 hours of fasting).

Feed conversion ratio (FCR)

Feed conversion ratio was calculated as feed consumption per 1 kg of live weight for the periods 1 – 7 days, 1 – 14, 1 – 28 and 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 and reason of mortality on the day of death.

Foot pad lesions

At the end of the trial the animals (24 pens, all birds per pen) were recorded according the scale.

Carcass analysis

The carcass analysis was done in 10 birds per each pen on day 35. Breast muscles was weighed without skin and thigh muscles with skin.

Statistical analyses

Performance results of live weight at the age of 35 days were statistically evaluated.

Feed Physical Quality

From each feed sample was performed a sieve-analysis.

Results

Tab. No.	1	Hatchability
	2a	Broiler results at the age of 7 days
	2b	Broiler results at the age of 14 days
	2c	Broiler results at the age of 28 days
	2d	Broiler results at the age of 35 days
	3	Mortality
	4	Foot pad lesions
	5	Carcass analysis
	6	Statistical analysis of body weight at the age of 35 days
	7	Feed Physical Quality

Performance results per pen:

	8a	Broiler results at the age of 7 days
	8b	Broiler results at the age of 14 days
	8c	Broiler results at the age of 28 days
	8d	Broiler results at the age of 35 days
	8e	Foot pad lesions
	8f	Uniformity

Hatchability

Tab. No. 1

Treatment	Tr. No.	Fertility	Hatchability		Birds housed	Average weight		
			Set eggs	Fertile eggs		Hatching eggs	Day old chicks	
			%	%			♂	♀
			%	%		g	g	g
T1	1	94.44	85.56	90.59	1890	62.33	42.03	41.83
T2	2	90.56	82.78	91.41	1890	69.00	45.74	46.04
T3	3	93.89	86.67	92.31	1890	66.44	44.74	44.52
T4	4	83.33	76.11	91.33	1890	70.47	46.52	46.51

Broiler results at the age of 7 days

Tab. No. 2a

Treatment	Tr. No.	Average live weight at 7 days								
		male			female			average		
		birds	live weight.	FCR	birds	live weight	FCR	birds	live weight	FCR
			g			g			g	
T1	1	940	200.45	1060.62	926	185.05	1037.81	1866	192.80	1077.11
T2	2	940	208.71	971.82	933	198.59	1023.41	1873	203.67	1048.43
T3	3	944	204.61	1020.75	925	198.66	908.20	1869	201.66	992.65
T4	4	942	208.08	1044.32	925	204.83	991.63	1867	206.47	1070.68

Broiler results at the age of 14 days

Tab. No. 2b

Treatment	Tr. No.	Average live weight at 14 days								
		male			female			average		
		birds	live weight.	FCR	birds	live weight	FCR	birds	live weight	FCR
			g			g			g	
T1	1	933	575.26	1024.39	906	532.91	1064.37	1839	554.40	1043.37
T2	2	930	591.74	1070.26	929	566.61	1061.89	1859	579.18	1066.17
T3	3	939	586.17	1029.93	913	532.58	1056.34	1852	559.75	1042.35
T4	4	938	587.85	1086.09	914	560.80	1086.90	1852	574.50	1086.48

Broiler results at the age of 28 days

Tab. No. 2c

Treatment	Tr. No.	Average live weight at 28 days								
		male			female			average		
		birds	live weight.	FCR	birds	live weight	FCR	birds	live weight	FCR
			g	g		g	g		g	
T1	1	918	1833.30	1297.70	900	1637.09	1319.77	1818	1736.17	1307.99
T2	2	909	2007.61	1255.02	919	1731.12	1348.83	1828	1868.61	1298.64
T3	3	929	1761.96	1300.96	908	1594.87	1319.39	1837	1679.37	1309.61
T4	4	926	1930.56	1307.71	908	1748.80	1324.72	1834	1840.57	1315.70

Broiler results at the age of 35 days

Tab. No. 2d

Treatment	Tr. No.	Average live weight at 35 days								
		male			female			average		
		birds	live weight.	FCR	birds	live weight	FCR	birds	live weight	FCR
			g	g		g	g		g	
T1	1	910	2463.70	1513.89	895	2166.69	1539.18	1805	2316.43	1525.58
T2	2	897	2601.10	1470.85	911	2314.41	1539.91	1808	2456.65	1503.52
T3	3	923	2383.63	1516.09	904	2132.22	1531.02	1827	2259.23	1523.05
T4	4	914	2569.12	1487.77	899	2329.66	1520.80	1813	2450.38	1503.29

Mortality

Tab. No. 3a

Treatment	Tr. No.	Mortality in the period						Mortality according causes													
		Day 1-14		Day 15-35		Day 1-35		1	2	3	4	5	6	7	8	9	10	11	12	13	14
		birds	%	birds	%	birds	%														
T1	1	51	2.70	34	1.80	85	4.50										2	46		22	15
T2	2	31	1.64	51	2.70	82	4.34										5	47		9	21
T3	3	38	2.01	25	1.32	63	3.33										4	23		16	20
T4	4	38	2.01	39	2.06	77	4.07	1									1	25		20	30

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

Mortality in the age 7 days

Tab. No. 3b

Treatment	Tr. No.	Mortality in the period					
		male		female		average	
		birds	%	birds	%	birds	%
T1	1	5	0.53	19	2.01	24	2.54
T2	2	5	0.53	12	1.27	17	1.80
T3	3	1	0.11	20	2.12	21	2.22
T4	4	3	0.32	20	2.12	23	2.43

Mortality in the age 14 days

Tab. No. 3c

Treatment	Tr. No.	Mortality in the period					
		male		female		average	
		birds	%	birds	%	birds	%
T1	1	12	1.27	39	4.13	51	2.70
T2	2	15	1.59	16	1.69	31	1.64
T3	3	6	0.63	32	3.39	38	2.01
T4	4	7	0.74	31	3.28	38	2.01

Mortality in the age 28 days**Tab. No. 3d**

Treatment	Tr. No.	Mortality in the period					
		male		female		average	
		birds	%	birds	%	birds	%
T1	1	27	2.86	45	4.76	72	3.81
T2	2	36	3.81	26	2.75	62	3.28
T3	3	16	1.69	37	3.92	53	2.80
T4	4	19	2.01	37	3.92	56	2.96

Mortality in the age 35 days**Tab. No. 3e**

Treatment	Tr. No.	Mortality in the period					
		male		female		average	
		birds	%	birds	%	birds	%
T1	1	35	3.70	50	5.29	85	4.50
T2	2	48	5.08	34	3.60	82	4.34
T3	3	22	2.33	41	4.34	63	3.33
T4	4	31	3.28	46	4.87	77	4.07

Foot pad lesions**Tab. No. 4**

Treatment	Tr. No.	Evaluation	
		right foot	left foot
T1	1	1.21	1.21
T2	2	1.57	1.59
T3	3	1.57	1.54
T4	4	1.66	1.68

Results of carcass analysis

Tab. No. 5

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	Wings		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	%	%	g	%	%	%
T1	1	♂	2542	1807	143	26	184	1.04	606	23.84	33.53	565	22.23	31.28	1171	46.07	64.81	71.08	76.71
		♀	2274	1637	126	32	164	1.41	570	25.07	34.84	496	21.83	30.34	1067	46.90	65.17	71.97	77.52
		♂	2408	1722	135	29	174	1.21	588	24.42	34.15	531	22.04	30.83	1119	46.46	64.98	71.50	77.09
T2	2	♂	2640	1889	144	32	196	1.23	641	24.29	33.94	574	21.73	30.36	1215	46.02	64.31	71.56	77.01
		♀	2363	1698	132	38	173	1.62	579	24.48	34.07	509	21.53	29.97	1087	46.02	64.03	71.86	77.47
		♂	2502	1794	138	35	185	1.41	610	24.38	34.00	541	21.64	30.18	1151	46.02	64.18	71.70	77.23
T3	3	♂	2501	1775	143	25	186	1.02	590	23.59	33.23	554	22.17	31.24	1144	45.76	64.47	70.97	76.70
		♀	2254	1619	128	28	169	1.24	551	24.46	34.06	494	21.90	30.49	1045	46.36	64.54	71.82	77.50
		♂	2377	1697	136	27	178	1.13	571	24.00	33.63	524	22.04	30.88	1095	46.04	64.51	71.37	77.08
T4	4	♂	2627	1860	145	29	197	1.10	629	23.96	33.84	568	21.62	30.54	1197	45.59	64.37	70.82	76.32
		♀	2361	1687	134	35	175	1.48	577	24.42	34.18	507	21.47	30.05	1084	45.90	64.23	71.46	77.13
		♂	2494	1774	139	32	186	1.28	603	24.18	34.00	538	21.55	30.31	1141	45.73	64.31	71.12	76.71

Statistical analysis - Cocks on the age of 35 days

Tab. No. 6a

Cross	Sample	Sample size	Average	Standard deviation	Coefficient of variation	Standard error of mean	Precision select. average	Standard error of coeff. of variation
			g/birds	g/birds	%	g/birds	%	%
T1	1	910	2463.70	292.81	11.88	9.71	0.39	0.28
T2	2	897	2601.10	304.92	11.72	10.18	0.39	0.28
T3	3	923	2383.63	341.16	14.31	11.23	0.47	0.34
T4	4	914	2569.12	305.98	11.91	10.12	0.39	0.28

Statistical analysis - Hens on the age of 35 days

Tab. No. 6b

Cross	Sample	Sample size	Average	Standard deviation	Coefficient of variation	Standard error of mean	Precision select. average	Standard error of coeff. of variation
			g/birds	g/birds	%	g/birds	%	%
T1	1	895	2166.69	271.92	12.55	9.09	0.42	0.30
T2	2	911	2314.41	283.31	12.24	9.39	0.41	0.29
T3	3	904	2132.22	267.53	12.55	8.90	0.42	0.30
T4	4	899	2329.66	287.84	12.36	9.60	0.41	0.30

Feed Physical Quality (total sample 1 kg)

Tab. No. 7

Feed	Day	Particles									
		> 3 mm		2-3 mm		0,8-2 mm		0,2-0,8 mm		< 0,2 mm	
		g	%	g	%	g	%	g	%	g	%
Starter BR1	0	691.57	69.16	277.12	27.71	13.10	1.31	8.67	0.87	9.54	0.95
	8	766.17	76.62	196.02	19.60	15.76	1.58	10.11	1.01	11.94	1.19
Grower BR2 A	14	988.86	98.89	4.30	0.43	2.86	0.29	1.87	0.19	2.11	0.21
	18	994.30	99.43	2.76	0.28	1.08	0.11	0.68	0.07	1.18	0.12
Grower BR2 B	23	970.14	97.01	16.70	1.67	7.38	0.74	3.64	0.36	2.14	0.21
	28	976.27	97.63	12.75	1.28	5.41	0.54	3.44	0.34	2.13	0.21
Finisher BR3	29	983.14	98.31	8.35	0.84	4.70	0.47	2.09	0.21	1.72	0.17
	35	987.36	98.74	6.68	0.67	3.09	0.31	1.36	0.14	1.51	0.15

Broiler results at the age of 7 days

Tab. No. 8a (page 1)

Treatment	Tr. No.	Box	Average live weight at 7 days					
			male			female		
			birds	live weight.	FCR	birds	live weight.	FCR
				g	g		g	g
T1	1	5	134	197.39	1157.07			
		8				131	189.92	1049.36
		12				131	172.14	1119.94
		17	135	191.70	1143.74			
		19	135	192.44	1112.39			
		24				135	194.22	1090.77
		26	135	209.78	978.11			
		33	135	176.30	1176.47			
		35				130	170.62	1144.06
		40				132	175.83	1102.01
		44	132	238.71	983.27			
		48				132	196.06	1034.06
		55	134	197.61	1000.87			
		59				135	195.70	1040.88
T2	2	2	135	206.00	1057.17			
		9				134	195.30	1097.90
		13				133	197.89	1058.00
		16	135	213.33	968.75			
		18				132	190.61	1134.30
		22	135	192.00	1111.11			
		28	135	215.33	959.75			
		34				133	193.38	1116.17
		37	135	202.44	1046.47			
		42	133	215.94	996.24			
		46				133	202.78	1040.10
		49	132	216.21	958.13			
		52				134	207.31	1091.90
		58				134	202.69	1075.89

Broiler results at the age of 7 days

Tab. No. 8a (page 2)

Treatment	Tr. No.	Box	Average live weight at 7 days					
			male			female		
			birds	live weight.	FCR	birds	live weight.	FCR
				g	g		g	g
T3	3	3	134	192.91	1262.65			
		6				125	185.60	1004.52
		10				134	189.55	951.07
		11	135	210.81	1026.00			
		20	135	208.81	947.14			
		23				133	210.15	929.55
		29	135	208.89	1070.92			
		36	135	195.93	986.77			
		39				134	198.28	912.44
		43	135	210.22	930.23			
		47				133	208.80	935.91
		50				134	197.84	978.71
		53	135	204.59	948.59			
		56				132	199.70	1027.42
T4	4	4				131	200.76	1181.96
		7	135	209.19	1161.47			
		14				133	194.06	1140.90
		15	135	203.26	1082.36			
		21	134	208.51	962.67			
		25				132	216.59	976.37
		27	135	237.04	1037.50			
		32	134	202.39	1126.50			
		38				128	196.09	1099.63
		41	134	186.87	1269.38			
		45				134	216.04	962.07
		51				133	196.84	1086.87
		54	135	209.11	1020.19			
		57				134	212.99	927.45

Broiler results at the age of 14 days

Tab. No. 8b (page 1)

Treatment	Tr. No.	Box	Average live weight at 14 days					
			male			female		
			birds	live weight.	FCR	birds	live weight.	FCR
				g	g		g	g
T1	1	5	132	607.80	955.19			
		8				128	529.69	1080.20
		12				119	538.24	1035.75
		17	134	580.52	996.47			
		19	133	555.04	1041.60			
		24				132	483.26	1150.65
		26	134	554.70	1055.05			
		33	135	579.85	996.42			
		35				130	570.69	975.43
		40				131	509.69	1114.58
		44	132	590.53	1075.97			
		48				132	575.38	997.58
		55	133	558.80	1055.97			
		59				134	524.40	1116.50
T2	2	2	133	548.72	1192.86			
		9				133	563.46	1047.30
		13				132	563.56	1066.81
		16	133	617.67	1051.87			
		18				131	547.18	1095.77
		22	133	567.37	1106.10			
		28	134	601.19	1025.98			
		34				133	589.85	987.00
		37	135	605.19	1023.26			
		42	130	604.00	1049.17			
		46				133	564.89	1082.30
		49	132	598.11	1056.60			
		52				133	581.80	1059.54
		58				134	555.30	1099.49

Broiler results at the age of 14 days

Tab. No. 8b (page 2)

Treatment	Tr. No.	Box	Average live weight at 14 days					
			male			female		
			birds	live weight.	FCR	birds	live weight.	FCR
				g	g		g	g
T3	3	3	133	552.56	1052.58			
		6				122	487.38	1068.05
		10				133	517.59	1051.40
		11	134	584.70	995.66			
		20	134	605.37	1018.30			
		23				132	502.95	1125.27
		29	135	594.81	1036.11			
		36	134	604.48	997.81			
		39				134	568.28	980.16
		43	135	586.15	1056.49			
		47				131	526.18	1109.32
		50				131	584.27	985.22
		53	134	574.78	1055.62			
		56				130	538.00	1095.29
T4	4	4				127	542.05	1133.36
		7	135	587.33	1050.57			
		14				132	564.77	1063.80
		15	134	574.93	1056.50			
		21	132	567.73	1112.12			
		25				131	548.55	1122.82
		27	135	628.89	1044.76			
		32	133	608.35	1130.21			
		38				126	570.32	1071.38
		41	134	561.94	1088.05			
		45				133	581.50	1070.44
		51				133	572.71	1060.23
		54	135	585.33	1122.50			
		57				132	545.08	1091.32

Broiler results at the age of 28 days

Tab. No. 8c (page 1)

Treatment	Tr. No.	Box	Average live weight at 28 days					
			male			female		
			birds	live weight.	FCR	birds	live weight.	FCR
				g	g		g	g
T1	1	5	129	1827.36	1334.91			
		8				127	1672.28	1307.58
		12				119	1547.14	1403.85
		17	132	1821.74	1266.11			
		19	130	1848.38	1284.20			
		24				130	1566.00	1281.01
		26	132	1833.03	1283.10			
		33	130	1821.62	1264.93			
		35				129	1615.35	1363.04
		40				131	1668.02	1336.03
		44	132	1947.27	1257.20			
		48				132	1663.18	1286.22
		55	133	1734.36	1401.32			
		59				132	1718.79	1274.24
T2	2	2	130	1972.00	1281.20			
		9				133	1701.73	1321.76
		13				131	1678.93	1394.36
		16	130	2061.92	1292.90			
		18				129	1763.57	1326.41
		22	130	1973.00	1188.01			
		28	131	1918.70	1300.94			
		34				131	1679.69	1471.88
		37	131	2082.37	1189.92			
		42	128	1928.13	1323.73			
		46				130	1766.46	1308.45
		49	129	2116.90	1216.41			
		52				132	1708.33	1364.95
		58				133	1819.17	1265.62

Broiler results at the age of 28 days

Tab. No. 8c (page 2)

Treatment	Tr. No.	Box	Average live weight at 28 days					
			male			female		
			birds	live weight.	FCR	birds	live weight.	FCR
				g	g		g	g
T3	3	3	131	1695.04	1325.13			
		6				122	1567.70	1277.28
		10				131	1475.80	1402.60
		11	132	1761.06	1318.22			
		20	134	1787.69	1281.38			
		23				131	1565.04	1337.54
		29	135	1788.15	1301.16			
		36	133	1727.59	1272.60			
		39				134	1563.66	1376.48
		43	134	1793.81	1325.22			
		47				131	1701.22	1254.30
		50				130	1680.00	1249.35
		53	130	1778.92	1283.72			
		56				129	1610.39	1348.84
T4	4	4				126	1781.35	1339.62
		7	131	1979.85	1281.59			
		14				132	1581.36	1446.05
		15	132	1878.03	1329.44			
		21	129	1896.36	1319.51			
		25				130	1774.15	1347.70
		27	132	1980.38	1274.00			
		32	133	2020.90	1275.88			
		38				125	1822.72	1253.27
		41	134	1821.04	1376.77			
		45				133	1824.66	1238.54
		51				132	1660.15	1404.59
		54	135	1937.78	1304.28			
		57				130	1803.23	1263.27

Broiler results at the age of 35 days

Tab. No. 8d (page 1)

Treatment	Tr. No.	Box	Average live weight at 35 days					
			male			female		
			birds	live weight.	FCR	birds	live weight.	FCR
				g	g		g	g
T1	1	5	128	2482.81	1546.49			
		8				127	2273.94	1481.92
		12				118	2222.80	1512.38
		17	131	2399.08	1536.57			
		19	130	2471.23	1489.68			
		24				130	2105.00	1481.10
		26	130	2518.38	1470.88			
		33	129	2407.83	1508.50			
		35				128	2104.61	1580.05
		40				131	2142.21	1606.53
		44	129	2544.81	1476.30			
		48				129	2117.44	1579.77
		55	133	2423.68	1572.28			
		59				132	2206.74	1534.18
T2	2	2	127	2595.35	1467.97			
		9				132	2323.48	1528.05
		13				131	2326.87	1517.54
		16	130	2660.23	1492.14			
		18				129	2292.87	1558.21
		22	128	2651.09	1361.70			
		28	130	2552.38	1490.15			
		34				129	2313.95	1596.38
		37	128	2540.08	1476.47			
		42	127	2622.52	1494.96			
		46				128	2238.59	1574.85
		49	127	2585.91	1515.22			
		52				132	2371.74	1484.91
		58				130	2330.92	1523.71

Broiler results at the age of 35 days

Tab. No. 8d (page 2)

Treatment	Tr. No.	Box	Average live weight at 35 days					
			male			female		
			birds	live weight.	FCR	birds	live weight.	FCR
				g	g		g	g
T3	3	3	131	2344.20	1531.43			
		6				122	2060.98	1513.09
		10				130	2111.31	1534.16
		11	131	2392.37	1529.75			
		20	130	2469.15	1478.53			
		23				131	2152.29	1520.90
		29	135	2367.04	1528.09			
		36	132	2381.82	1466.08			
		39				133	2138.72	1542.06
		43	134	2354.93	1559.59			
		47				130	2113.38	1563.89
		50				129	2206.51	1483.29
		53	130	2377.69	1521.18			
		56				129	2138.29	1560.02
T4	4	4				124	2377.26	1519.44
		7	128	2521.48	1503.93			
		14				130	2275.23	1552.96
		15	130	2607.15	1454.90			
		21	127	2533.70	1515.51			
		25				130	2333.15	1534.64
		27	131	2576.79	1476.15			
		32	132	2661.29	1448.92			
		38				122	2285.25	1549.22
		41	133	2485.34	1532.00			
		45				131	2331.15	1519.58
		51				132	2382.05	1489.73
		54	133	2596.39	1487.45			
		57				130	2322.15	1483.81

Foot pad lesions

Tab. No. 8e

Treatment	Tr. No.	Box	Evaluation	
			right foot	left foot
T1	1	12	1.08	1.01
		17	1.72	1.76
		40	0.85	0.87
		44	1.48	1.44
		48	0.68	0.79
		55	1.41	1.38
T2	2	13	1.38	1.41
		16	1.93	1.92
		42	1.55	1.70
		46	1.43	1.46
		49	1.75	1.80
		52	1.37	1.27
T3	3	10	1.12	1.14
		11	1.89	1.89
		43	1.93	1.78
		47	1.45	1.35
		50	1.27	1.25
		53	1.72	1.81
T4	4	14	1.46	1.44
		15	1.90	1.99
		41	2.06	1.92
		45	1.52	1.56
		51	1.33	1.42
		54	1.72	1.75

Uniformity

Tab. No. 8f (page 1)

Treatment	Tr. No.	Box	Uniformity			
			7 days	14 days	28 days	35 days
T1	1	5	54.5	53.0	68.2	70.3
		8	42.7	55.5	66.9	76.4
		12	55.7	50.4	51.3	71.4
		17	80.0	63.4	54.2	74.4
		19	66.7	62.4	50.0	67.7
		24	35.6	65.2	48.5	61.5
		26	63.7	79.1	55.3	66.2
		33	68.1	47.4	70.0	69.0
		35	79.2	45.4	59.7	77.3
		40	64.4	53.4	71.0	67.2
		44	43.2	69.6	59.1	68.7
		48	55.3	45.9	47.0	69.2
		55	77.8	76.7	59.3	72.2
	59	75.6	72.4	43.9	69.7	
T2	2	2	51.9	52.6	74.6	74.8
		9	59.0	51.1	68.9	73.5
		13	78.9	71.2	51.1	63.8
		16	71.9	60.2	58.5	73.8
		18	47.4	61.8	55.0	72.9
		22	39.3	64.7	72.3	61.7
		28	54.1	56.7	66.4	71.5
		34	70.1	43.6	65.2	75.2
		37	68.1	58.5	60.2	70.3
		42	52.6	51.1	69.0	77.3
		46	59.3	60.2	61.5	78.9
		49	61.7	59.0	65.9	72.7
		52	73.3	70.7	76.5	70.2
58	63.4	73.1	53.4	73.8		

Uniformity

Tab. No. 8f (page 2)

Treatment	Tr. No.	Box	Uniformity			
			7 days	14 days	28 days	35 days
T3	3	3	53.0	49.6	45.8	45.0
		6	68.0	53.7	57.4	63.9
		10	41.8	43.6	55.0	61.5
		11	67.4	62.7	50.8	58.0
		20	59.3	65.7	62.7	58.5
		23	54.9	74.2	54.2	62.6
		29	51.1	60.7	54.1	73.3
		36	65.9	53.0	58.6	61.4
		39	67.9	51.5	69.4	62.4
		43	57.0	45.9	58.2	58.2
		47	37.6	45.8	47.3	67.7
		50	46.3	45.5	52.3	64.6
		53	68.9	64.2	51.6	52.0
		56	65.9	72.3	55.8	71.1
T4	4	4	55.7	48.8	66.7	75.0
		7	74.1	54.1	64.9	63.3
		14	74.4	65.2	45.5	74.6
		15	68.9	63.4	49.2	70.0
		21	44.8	69.7	62.8	68.5
		25	45.5	78.6	53.8	76.9
		27	51.9	63.7	62.1	67.2
		32	69.4	52.6	70.7	80.3
		38	51.6	50.0	60.0	62.3
		41	64.2	62.7	76.3	65.4
		45	55.2	57.9	56.4	67.2
		51	75.2	58.6	71.8	59.8
		54	77.0	72.6	60.0	78.0
		57	67.9	60.6	54.6	72.3