



MEZINÁRODNÍ TESTOVÁNÍ DRŮBEŽE ÚSTRAŠICE

státní podnik

390 02 Tábor 2

Česká republika

BROILER FEEDING TEST

**The effect of Reasil Humic Health and Reasil HumiClean
on performance parameters in broiler chickens**

ITL Innovation Technology for Life, s.r.o.

1 January – 4 February 2020

Study Investigator:
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IČ: 43833580

Material and methods

Test term

Beginning of the test:	10 December 2019 (setting in the incubator) 1 January 2020 (transfer to the chicken house)
End of the test:	4 February 2020

Experimental treatments:

Treatment No.

- 1: **CONTROL** – control diet
- 2: **TRIAL** – control diet + Reasil Humic Health (2 kg/tonn of feed) and Reasil HumiClean (100g/m² of litter of box)

Material:

In total there were 632 day old chicks of ROSS 308. 10-day old chicks were randomly distributed into 4 boxes. Control treatment had 1 box and Trial treatment had 3 boxes. In every box were 158 chicks.

Origin of hatching eggs: Xaverov a.s., RCH Bynina, age of the breeding flock was 56 weeks.

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 - 32	18 hours of light + 6 hours of darkness
Day 33 – 35	23 hours of light + 1 hour of darkness

Stocking density: 18,5 broilers per square meter

Veterinary precautions:

The chicken house was disinfected by Virkon before the chick placement. On days 1 chickens were vaccinated with IB PRIMER.

Feed: Feed was produced in Mezinárodní testování drůbeže, s.p.

Day 11 – 28 Grower (BR2)

Day 29 – 35 Finisher (BR3)

Diet formulas BR2:

Components (%)	BR2	BR3
Wheat	37.78	41.72
Soybean meal	32.00	28.00
Maize	20.42	20.00
Soybean oil	5.68	6.40
Limestone	1.35	1.05
MCP	1.10	1.20
Salt	0.30	0.29
Na ₂ CO ₃	0.15	0.15
L-lysine	0.42	0.39
DL-methionine	0.10	0.10
L-threonine	0.20	0.20
Premix AMV BR 2 PLUS	0.50	-
Premix AMV BR 3 PLUS	-	0.50
Nutrient content		
Crude protein (g/kg)	222.44	208.89
ME (MJ/kg)	12.96	13.26
Lysine (g/kg)	13.07	11.94
Methionine (g/kg)	5.66	5.21
Met.+Cys. (g/kg)	8.80	8.25
Ca (g/kg)	8.86	7.68
P (g/kg)	6.07	6.15
Na (g/kg)	1.62	1.59

Parameters recorded and methods applied

Live weight

Live weight was measured on days 1 and 10 (all the birds in each pen were weighed altogether), 28 (all the birds were weighed individually, without fasting). On day 35 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 – 28 days, 29 – 35 days and for the overall experiment (1 – 35 days).

Feed conversion ratio

Feed consumption and feed conversion ratio to gain ratio were calculated 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.

Feed consumption

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

Mortality

All pens were checked twice 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. 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 28 and 35) were statistically evaluated using the ANOVA single-factor model (Scheffe test).