

BioPlus 2B
Efficacy Trials - Broilers



Study the effect of different levels of BioPlus 2B on layers performance

Location:

Zarand farm, Saveh, Iran.

Period of trial:

94 days.

Material and methods:

Total of layers : 1728(4 treatments and 432 layers per treatment)

Number of replicate : 3 replicates (144 layers) per treatment

Age of layers in start of trial: 74 weeks (after force molting)

<i>Ingredients and analysis of diets</i>	
Ingredients (%)	Percent
Corn	33.17
Soybean meal	4.976
meat meal	6.635
Canola meal	8.294
Wheat	23.986
Wheat bran	4.976
Zeolite	4.976
DCP	0.83
Calcium Carbonate	7.96
Fatty acid	2.985
Premix (Vit & Min)	0.5
Salt	0.315
DL- Methionine	0.067
Hcl-Lysine	0.023
Sodium Bicarbonate	0.2
Vit C	0.1
Total	100

<i>Analysis</i>	
Ingredients (%)	Percent
Dry matter (%)	89.91
CP (%)	16.63
ME(kcal/kg)	2860.43
Fiber (%)	3.44
Fat (%)	6.53
Linoleic acid (%)	2.71
Ca (%)	3.74
Avai. Phosphors (%)	0.45
Met (%)	0.37
Lys (%)	0.76

Experimental groups:

- 1- Control without BioPlus 2B
- 2- Control + BioPlus 2B (200 gram / ton)
- 3- Control + BioPlus 2B (400 gram / ton)
- 4- Control + BioPlus 2B (600 gram / ton)

My measurements was included: Egg production, Egg weight, Egg number, Yolk color, FCR, Body weight, Mortality, Feed intake, Determination of blood cholesterol and number of white blood cells and Salmonella test.

Results:

Measurements	Treatments			
	1(control)	2	3	4
No. of hens in start of trial	432	432	432	432
No. Mortality	21	21	17	15
No. of hens in end of trial	411	411	415	417
Percent of mortality	4.86	4.86	3.93	3.47
Total feed intake(kg)	3430.62	3277.09	3241.9	3377.4
Feed intake in laying period(kg)	2825.4	2671.9	2636.7	2772.2
Number of egg	16517	16004	16085	16430
Total egg weight(kg)	1030.274	998.33	1011.735	1037.68
Average of egg weight(gr)	62.38	62.38	62.90	63.16
FCR(gr/gr)	2.742	2.676	2.606	2.671
Average of body weight in end of trial(gr)	1562.7	1557	1624	1637.3
Feed cost / Kg egg (Rial & Euro) 1Euro=9600 Rials	3674.3 Rials = 0.3827 Euro	3585.8 Rials = 0.3735 Euro	3492.04 Rials = 0.3637 Euro	3579.1 Rials = 0.3728 Euro
BioPlus2B consumed(gr)/Kg egg	0	0.535	1.042	1.6
BioPlus2B cost (Rial & Euro)/ Kg egg 1Kg BioPlus2B =15000Rials =15.625 Euro	0	80 Rials = 0.0083 Euro	156 Rials = 0.01625 Euro	240 Rials = 0.025 Euro
Feed cost + BioPlus2B cost/Kg egg	3674.3 Rials =0.3827 Euro	3665.8 Rials =0.3818 Euro	3648.04 Rials =0.38 Euro	3819.1 Rials =0.3978 Euro
Difference with control group	0	-8.5 Rials = -0.00088 Euro	-26.26 Rial = -0.0027 Euro	+144.8 Rial = +0.015 Euro

Results:

Measurements	Treatments			
	1(control)	2	3	4
Egg yolk color at 60 th day of trial	3-4	3-4	3-4	3-4
Egg yolk color at end of trial	3-4	3-4	3-4	3-4
Serum cholesterol at 60 th day of trial(mg/dl)	173	142.66	132.66	120.44
Serum cholesterol at end of trial (mg/dl)	191.2	158.22	147.9	178.5
Number of white blood cells at 60 th day of trial(n/mm ³)	31500	48200	35944	48142
Number of white blood cells at end of trial(n/mm ³)	26911	39000	28578	31250

Results of salmonella test of blood and egg:

Measurements	Treatments											
	1(control)			2			3			4		
	+	-	*	+	-	*	+	-	*	+	-	*
Sal. Test of blood at start of trial	3	3	3	3	6	0	3	0	6	3	6	0
Sal. Test of blood at 60 th days of trial	3	6	0	4	5	0	2	7	0	3	6	0
Sal. Test of blood at end of trial	2	7	0	3	6	0	2	7	0	0	9	0
Sal. Test of egg at 60 th days of trial	0	9	0	0	9	0	0	9	0	0	9	0

+ Number of positive test

- Number of negative test

* Number of doubtful test