

BioPlus 2B
Efficacy Trials - Broilers



Study of effect of BioPlus 2B on broilers Performance (Arbor acres breed)*Location:*

Fadak farm, karaj, Iran.

Period of trial:

49 days.

Materials and methods:

Broilers were divided in 2 groups. The first group including 11550 broilers were received BioPlus 2B (11A & 12B) and second group including 11550 broilers as control group (11B & 12A) did not used BioPlus 2B.

We had totally 4 saloon , 2 saloon control groups(11B & 12A), 2 saloon BioPlus 2B user groups(11A & 12B) and every 2 saloon (1 control group , 1 BioPlus 2B group) has similar dimension and facilities.

The first group had been feed by one kg BioPlus 2B per ton diet for the first 21 days and for the remain time up to the end of trial (49 days) had received 400 gram BioPlus 2B per ton.

All of diets provided by using the feeding guide tables of Arbor acres, NRC 1994 and based on corn and soybean meal.

*Results:**0-7 days:*

Number of saloon	Number of broilers (one day)	Number of mortality	Number of broilers (end of week)	Total feed intake (kg)	Feed intake (g/bird)	Body weight (g)	Average of weight gain (g/day)	Total weight of mortality (gr)	FCR
11A	5700	48	5652	542	95	110	10.1	2430	0.86
11B	5700	67	5633	533	94	107	9.7	3185	0.87
12A	5850	46	5804	567	97	109	10	2450	0.88
12B	5850	38	5812	567	97	112	10.4	1930	0.86

8-14 days:

Number of saloon	Number of broilers (one day)	Number of mortality	Number of broilers (end of week)	Total feed intake (kg)	Feed intake (g/bird)	Body weight (g)	Average of weight gain (g/day)	Total weight of mortality (gr)	FCR
11A	5652	125	5527	1070	193	278	22	10000	1.03
11B	5633	103	5530	1105	199	271.7	23.5	7150	1.08
12A	5804	88	5716	1280	223	293.5	26.3	7770	1.09
12B	5812	74	5738	1280	223	303	27.2	6775	1.05

15-21 days:

Number of saloon	Number of broilers (one day)	Number of mortality	Number of broilers (end of week)	Total feed intake (kg)	Feed intake (g/bird)	Body weight (g)	Average of weight gain (g/day)	Total weight of mortality (gr)	FCR
11A	5527	265	5262	1655	314	512	33.4	51900	1.17
11B	5530	289	5241	1713	326	514	34.6	62450	1.20
12A	5716	232	5484	1775	323	531	33.9	55650	1.21
12B	5738	176	5562	1780	320	534	33	44900	1.19

22-28 days:

Number of saloon	Number of broilers (one day)	Number of mortality	Number of broilers (end of week)	Total feed intake (kg)	Feed intake (g/bird)	Body weight (g)	Average of weight gain (g/day)	Total weight of mortality (gr)	FCR
11A	5262	609	4653	2105	452	705	27.5	195000	1.49
11B	5241	444	4797	2155	449	692	25.4	137200	1.54
12A	5484	740	4744	2210	465	707	25.1	233000	1.56
12B	5562	472	5090	2411	473	710	25.1	153400	1.56

29-35 days:

Number of saloon	Number of broilers (one day)	Number of mortality	Number of broilers (end of week)	Total feed intake (kg)	Feed intake (g/bird)	Body weight (g)	Average of weight gain (g/day)	Total weight of mortality (gr)	FCR
11A	4653	355	4298	2589	602	983	39.7	162200	1.68
11B	4797	274	4523	2740	605	941	35.5	117000	1.77
12A	4744	442	4302	2695	626	980	39	212700	1.76
12B	5090	256	4834	2970	615	979	38.4	141000	1.76

29-35 days:

Number of saloon	Number of broilers (one day)	Number of mortality	Number of broilers (end of week)	Total feed intake (kg)	Feed intake (g/bird)	Body weight (g)	Average of weight gain (g/day)	Total weight of mortality (gr)	FCR
11A	4298	260	4038	3290	814	1203	31.4	158010	2.05
11B	4523	250	4273	3500	819	1183	34.5	167300	2.10
12A	4302	257	4045	3304	816	1200	31.4	183211	2.12
12B	4834	209	4625	3694	800	1198	31.2	149716	2.11

36-42 days:

Number of saloon	Number of broilers (one day)	Number of mortality	Number of broilers (end of week)	Total feed intake (kg)	Feed intake (g/bird)	Body weight (g)	Average of weight gain (g/day)	Total weight of mortality (gr)	FCR
11A	4298	260	4038	3290	814	1203	31.4	158010	2.05
11B	4523	250	4273	3500	819	1183	34.5	167300	2.10
12A	4302	257	4045	3304	816	1200	31.4	183211	2.12
12B	4834	209	4625	3694	800	1198	31.2	149716	2.11

43-49 days:

Number of saloon	Number of broilers (one day)	Number of mortality	Number of broilers (end of week)	Total feed intake (kg)	Feed intake (g/bird)	Body weight (g)	Average of weight gain (g/day)	Total weight of mortality (gr)	FCR
11A	4038	239	3799	3775	993	1511	44	204116	2.29
11B	4273	287	3986	3950	990	1488	43.5	226000	2.34
12A	4045	261	3784	3767	995	1520	45.7	235610	2.33
12B	4625	232	4393	4262	972	1508	44.2	230113	2.32

Economic estimate of trial:

Treatments	Number of saloon	Number of broilers (end of trial)	Body weight at 49 days (kg)	Total weight of broilers (kg/saloon)	Total weight of broilers (kg/treatment)	Outcome of sale of broilers (live weight) ¹
<i>Control</i>	11B	3986	1.488	5931.2	11682.9	82.948.590 R = 9479.84 E
	12A	3784	1.520	5751.7		
<i>BioPlus 2B</i>	11A	3799	1.511	5740.3	12364.94	87.791.074 R = 10033.26 E
	12B	4393	1.508	6624.64		

1- 1 kg meat of broiler(live weight) = 7100 Rials = 0.811 Euro

R: Rials E: Euro

Treatments	Number of saloon	Total feed intake (kg/saloon)	Total feed Intake (kg/treatment)	Cost of feed ¹	Amount of used BioPlus 2B (kg)	Cost of BioPlus 2B	Cost of feed and BioPlus 2B
<i>Control</i>	11B	15696	31294	58.519.780R 6687.97 E	0	0	58.519.780 R =6687.97 E
	12A	15598					
<i>BioPlus 2B</i>	11A	15026	31990	59.821.300 R= 6836.72 E	16.932	2.539.800R =290.26 E	62.361.100 R =7127 E
	12B	16964					

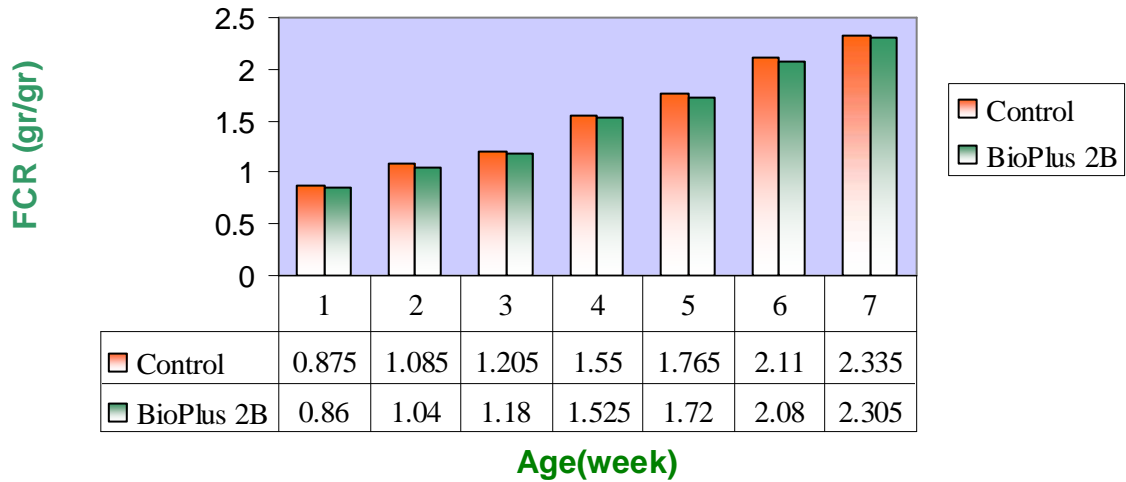
1- Average cost of one kg of feed = 1870 Rials = 0.214 Euro

2- 1 kg of BioPlus 2B = 150.000 Rials = 17.143 Euro

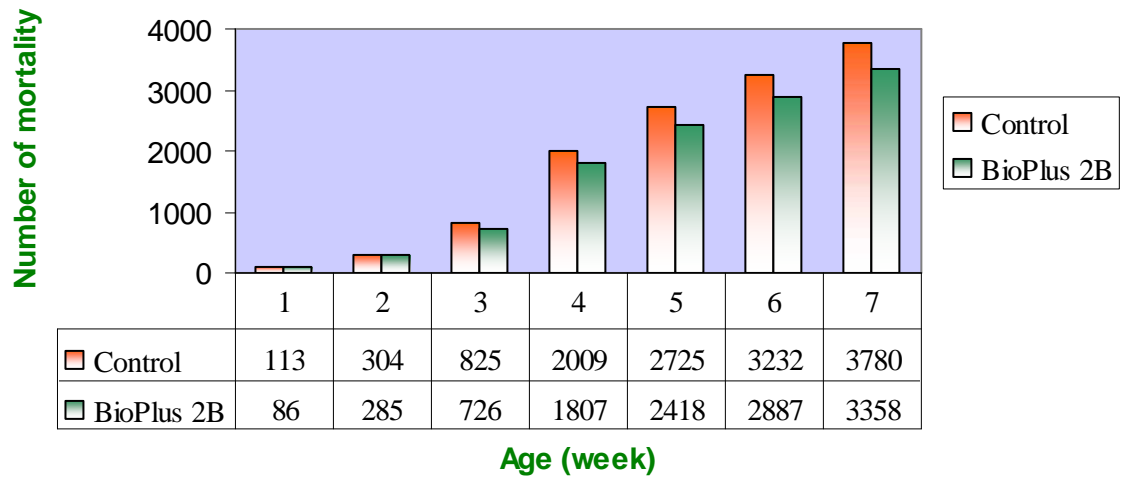
Treatments	Outcome of sale of broilers minus Cost of feed and BioPlus 2B	Different
Control	24.428.810 R= 2791.86 E	-
BioPlus 2B	1.001.164 R= 114.42 E	25.429.974 R= 2906.28 E

Therefore by using BioPlus 2B in this trial, we have obtained more profit amounting to Rials 1,001,164 (114.42 Euro) than control group, it means by using BioPlus 2B we have obtained more profit amounting to Rials 122 (0.014 Euro) per each produced chicken.

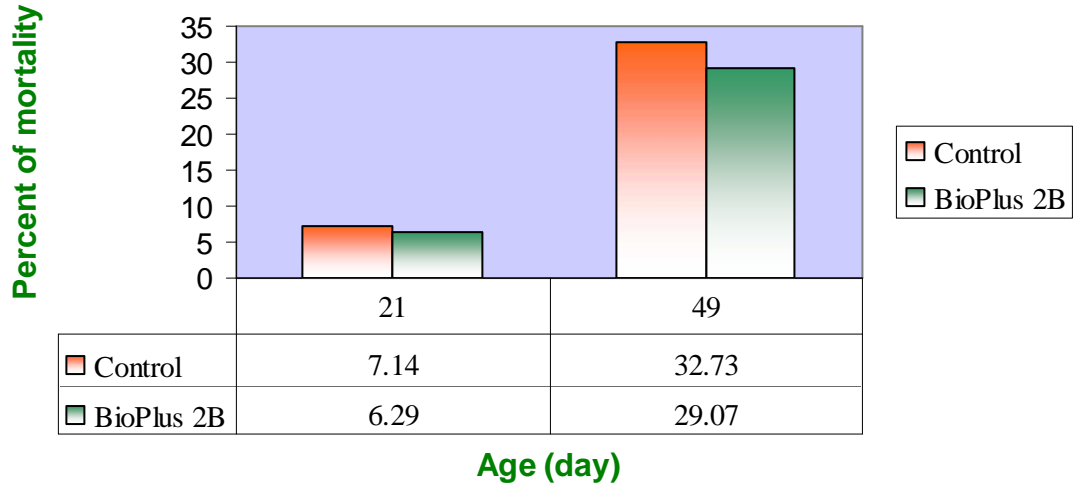
Effect of BioPlus 2B on FCR



Effect of BioPlus 2B on number of mortality



Effect of BioPlus 2B on percent of mortality



Effect of BioPlus 2B on average of body weight

