

China: BioAktiv Increases Broiler Farmer's Income by 27-42%

This is an extract of the report on the two trials to study the effects of the use of BioAktiv Professional Salis on broilers which was jointly conducted by 甘肃省畜牧技术推广总站 (Gansu Province Animal Husbandry Technology Promotion Head Office) and 陇台绿色无抗养殖有限公司 (Longtai Green Non-Antibiotic Breeding Co., Ltd.) in Gansu Province, China in 2019.

生跃饮用水动物增长剂肉鸡饲养试验总结报告

试验地点: 榆中县孔亮肉鸡养殖场
 执行单位: 甘肃省畜牧技术推广总站
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 时 间: 2019 年



The original report

Kongliang Broiler Farm

BioAktiv Works

The two trials were carried out at 榆中县孔亮肉鸡养殖场 (Kongliang Broiler Farm) in Yuzhong District in Gansu Province from 20 June to 28 September 2019. BioAktiv Professional Salis, a sodium chloride based drinking water additive, was proven effective in both trials. The estimated extra income by using the BioAktiv product in the first 30-day trial was about 27% and that for the second 88-day was 42%.

The First Trial

The breed used in the first trial was 麻六 (Maliu or Jute 6). All 55-day old males were used, 1,354 in test group and 1,386 in control group. Each group was reared on a raised bed separated by a central walkway in a house. The test group broilers were treated with 0.01% BioAktiv solution while the control group broilers were not. Sample weighing was done on the eighth day of the trial. The trial lasted 30 days until all the broilers were sold.

Parameter	BioAktiv	Control	Difference
Initial broiler number	1,354	1,386	
Final broiler number	1,330	1,359	
Survival rate (%)	98.23	98.05	0.18 (0.2%)
Average daily gain (g)	47.51 ^a	43.66 ^b	3.85 (8.8%)
Total weight gain (kg)	1,576	1,522	
Feed consumed (kg)	4,730	4,930	
Feed conversion ratio	3.00	3.24	-0.24 (-7%) ¹

Table 1.1: Results of first broiler trial (a,b - statistically significant $P < 0.05$)

¹ Wrongly reported as 0.24(8.0%) in the original report.

Table 1.1 shows that BioAktiv improved the broiler survival rate by 0.18%, increased average daily gain by 3.85 g (8.8%) and improved feed conversion ratio by 0.24 (8.0%).

An evaluation of the financial benefits of using BioAktiv Professional Salis was done based on an initial broiler number of 1,400 for both groups. The results are given in Table 1.2.

Parameter	BioAktiv	Control
Initial broiler number	1,400	1,400
Survival rate (%)	98.23	98.05
Final broiler number	1,375	1,373
Average weight gain (kg)	1.43	1.31
Total weight gain (kg)	1,966.25	1,798.63
Broiler price (¥/kg)	15.00	15.00
Income:	¥ 29,493.75	¥ 26,979.45
Total weight gain (kg)	1,966.25	1,798.63
Feed conversion ratio	3.00	3.24
Feed consumption	5,898.75	5,827.56
Feed price (¥/kg)	3.45	3.45
Feed cost (¥)	20,359.69	20,105.09
BioAktiv cost (¥)	400.00	0.00
Total cost:	¥ 20,759.69	¥ 20,105.09
Earnings:	¥ 8,743.06	¥ 6,874.36
Extra income:	¥ 1,868.70	¥ 0.00

Table 1.2: Financial benefit evaluation of using BioAktiv

As shown in Table 1.2, BioAktiv provided an extra income of ¥ 1,868.70, about 27% of the earnings of control group (¥ 6,874.36). Based on the 1,375 surviving broilers, each test broiler brought in extra ¥ 1.36. Dividing the extra income by the cost of BioAktiv, we get an ROI of 4.67.

The Second Trial

A trial similar to the first was carried out in another house. The breed 英国红 (English Red) and all males were used, 1,530 in test group and 1,400 in control group. Starting at the age of nine days, test group chicks were treated with 0.01% BioAktiv solution while control group broilers were not. The trial lasted 88 days until all the broilers were sold. The results are given in Table 2.1.

Parameter	BioAktiv	Control	Difference
Initial broiler number	1,530	1,400	
Final broiler number	1,474	1,339 ²	
Survival rate (%)	96.31	95.64	0.70 (0.7%)
Average daily gain (g)	33.74	30.70	3.04 (9.9%)
Total weight gain (kg)	4,313.56	3,554.61	
Feed consumed (kg)	10,087	10,021	
Feed conversion ratio	2.34	2.82	-0.48 (-17.0%)

Table 2.1: Results of first broiler trial

² Wrongly reported as 1399 in the original report.

A similar evaluation of the financial benefits was done based on an initial broiler number of 1,500 for both groups. The results are given in Table 2.2. BioAktiv provided an extra income of ¥ 8,503.27, about 42% of the earnings of control group. Based on the 1,445 surviving broilers, each test broiler brought in extra ¥ 5.88. The estimated ROI was 10.6.

Parameter	BioAktiv	Control
Initial broiler number	1,500	1,500
Survival rate (%)	96.31	95.64
Final broiler number	1,445	1,435
Average weight gain (kg)	2.97	2.70
Total weight gain (kg)	4,291.65	3,874.50
Broiler price (¥/kg)	15.00	15.00
Income:	¥ 64,374.75	¥ 58,117.50
Total weight gain (kg)	4,291.65	3,874.50
Feed conversion ratio	2.34	2.82
Feed consumption	10,042.46	10,926.09
Feed price (¥/kg)	3.45	3.45
Feed cost (¥)	34,646.49	37,695.01
BioAktiv cost (¥)	802.50	0.00
Total cost:	¥ 35,448.99	¥ 37,695.01
Earnings:	¥ 28,925.76	¥ 20,422.49
Extra income:	¥ 8,503.27	¥ 0.00

Table 2.2: Financial benefit evaluation of using BioAktiv

Conclusion

The parties who carried out the study including Gansu Province Animal Husbandry Technology Promotion Head Office concluded that the two trials clearly indicated that the use of BioAktiv Professional Salis in rearing broilers was effective. Its use could increase farmer's income by 27% to 42%. They recommended the BioAktiv product be widely used in broiler farms.

[\[Original report \(in Chinese\)\]](#)