

Large scale Sel-Plex™ trial in broiler breeder

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Abstract

The selenium is an important trace minerals of the organism. The trial was conducted to examine the effect of Sel-Plex™ on the production parameters of meat type breeder flock. The parenstock was fed with Sel-Plex™ supplemented diets has less mortality (female and male) and produced more eggs and chicks.

Introduction

The oxidative stress is more expressed in the recent meat type genetics lines due to the high degree of unsaturated fatty acids in the „vegetarian” nutrition. There is an increased demand for the antioxidants in the feed. The selenium is playing an important role in the antioxidant system of the organism.

Materials and Methods

In the trial we examined the effects of Sel-Plex™ for the production parameters of broiler breeders. The farm has 8 houses. The breed is Hubbard Flex. The control houses (2-4-6-8) has 0,2 mg/kg natrium selenite in the diet. The trial houses was fed with 0,2 mg/kg natrium selenite + 0,25 mg/kg Sel-Plex™ content feed from 23 weeks of age. The results of trial and control houses of the farm were compared during the trial.

Results and Discussion

Production up 56 weeks

- Control houses (20 668 female; 2152 male)

House	Female		Male	
	Henhoused	Mortality %	Henhoused	Mortality %
2	5172	8,5	537	21,0
4	5163	9,6	540	27,4
6	5166	8,3	538	23,6
8	5167	5,7	537	24,5
Average		8,0		24,1

House	Feed kg/ female	Egg production/ henhoused		Hatch %	DO chicks/ henhoused
		Total	Hatching		
2	37,17	141,36	83,09	82,7	69,0
4	36,03	139,92	83,61	82,8	69,3
6	36,87	142,71	82,69	82,3	68,2
8	37,43	143,14	83,87	83,3	69,9
Average	36,87	141,78	83,31	82,7	69,1

- Trial houses (20 680 female; 2153 male)

House	Female		Male	
	Henhoused	Mortality %	Henhoused	Mortality %
1	5172	5,7	539	21,5
3	5173	5,5	539	23,7
5	5163	7,5	538	23,6
7	5172	8,0	537	23,4
Average		6,6		23,0

House	Feed kg/ female	Egg production/ henhoused		Hatch %	DO chicks/ henhoused
		Total	Hatching		
1	37,92	151,25	91,97	83,9	77,2
3	37,73	146,05	86,70	84,3	73,2
5	36,91	144,46	84,02	83,1	70,0
7	37,03	141,80	86,28	82,4	68,3
Average	37,39	145,89	86,28	83,4	72,2

Production up to 60 weeks (the other house were killed earlier)

House	Female		Male	
	Henhoused	Mortality %	Henhoused	Mortality %
2	5172	9,4	537	23,8
1	5172	6,4	539	24,8

House	Feed kg/ female	Egg production/ henhoused		Hatch %	DO chicks/ henhoused
		Total	Hatching		
2	41,29	152,15	94,46	79,9	75,7
1	42,15	161,79	104,15	82,0	85,7

The trial houses have less mortality. The flock of the trial houses produced 3 more chicks than the control flock. up 56 weeks of age. The difference reached 10 chicks/henhoused female between the treated and control groups when the flock was 60 weeks old.