

Trials with Poultry

To substantiate the laboratory results under practical farm conditions, an R&D trial was taken up in commercial broilers at the prestigious Bangkok Animal Research Centre (An Ajinomoto company) in Thailand.

The experiment was designed in a manner so as to assess the efficiency of Lipidin both as an emulsifier (by reformulating the energy content through fat) as well as an absorption enhancer (by additional reformulation of digestible amino acids).

The following table shows the ability of Lipidin to compensate energy and digestible amino acids adjustments of 90 Kcal/kg and 5% respectively through emulsification and improved nutrient absorption.

Commercial Broiler Trial at BARC Thailand

BARC, Thailand – Trial Summary

Parameters	Units	Positive Control (PC)	PC + 500g\MT Lipidin	NC1 (reduced ME 90kcal/kg)	NC1 + Lipidin 500g/MT	NC2 (Reduced ME 90kcal/kg & 5% AA)	NC2 + Lipidin 500g/MT
CHICKS							
468 Arbor Acres Plus Males							
Duration 0-35days							
Final Body weight	Kg	2.761	2.747	2.727	2.790	2.711	2.770
Feed Intake	Kg	3.872	3.817	3.859	3.943	3.882	3.936
Mortality	%	2.6	2.6	3.8	5.1	2.6	3.8
Avg. Feed cost	Rs	31.05	31.15	29.59	29.69	28.64	28.74
FCR		1.426	1.412	1.439	1.436	1.456	1.444

COMMERCIAL BROILER TRIALS IN INDIA

On Top Trials

These trials have been conducted and/or coordinated by Avitech Analytical Division in India. In all the trials, Lipidin was added on top at the rate of 500 g/MT of feed in the experimental diets.

Trial	Body weight(Kg)		FCR		Mortality %		EPEF		Feed cost/Kg BW (USD)		Savings on feed cost/kg live weight (USD)
	Control	Lipidin	Control	Lipidin	Control	Lipidin	Control	Lipidin	Control	Lipidin	
1	2341	2396	1.76	1.73	1.33	3.33	313	318	0.628	0.625	0.003
2	1980	2016	1.77	1.71	3.08	3.66	278	291	0.538	0.528	0.01
3	1834	1829	1.72	1.71	3.15	2.15	287	291	0.538	0.535	0.003
4	1965	2016	1.72	1.71	4.03	3.66	281	291	0.534	0.528	0.006
5	1585	1657	1.52	1.48	0	2.78	298	330	0.551	0.542	0.009
6	1872	1937	1.8	1.69	4.69	3.65	254	283	0.516	0.488	0.028
Avg.	1930	1975	1.71	1.67	2.71	3.2	285	301	0.551	0.541	0.01

Trial with Dietary Reformulation

Body wt (kg)		FCR		Mortality		EPEF		Savings on feed cost/ Kg	Savings/MT of feed (USD)
Control	Lipidin	Control	Lipidin	Control	Lipidin	Control	Lipidin		
2529	2530	1.79	1.77	4.46	4.46	337	341	0.011	2.44

Experiment was conducted to evaluate the effect of Lipidin after reformulation on broiler (Cobb 400 males) performance.

Reformulated diet (experimental group) contained 2% less energy and other nutrients than control (Research Farm-RR Labs, Hyderabad, India).

COMMERCIAL LAYER FIELD STUDY

Sahil Poultry Farm, Barwala, Punjab, India. (Farm Capacity: 150,000 birds)

	Group A (-2% total protein with Lipidin)	Group B (Practical diet, without Lipidin)
Avg. feed consumed/day/bird (g)	107.69	105.66
Avg. daily production (%)	89.02	85.69
Feed consumed/egg (g) (FCE)	120.96	123.29
Avg. Egg wt. (gm)	56.32	56.52
Avg. Body wt. (gm)	1500.8	1451.6
Feed cost / 10000 eggs (USD)	280.77	288.31

*Saving of USD 7.54 on feed cost per 10000 eggs due to reformulation with Lipidin