



PATENTED. POWERFUL. PROVEN.

LinPRO for Layers is a unique blend of flax and pulses extruded under controlled temperature and pressure in our patented dry extrusion process. The resulting product promotes optimal growth and production to meet the requirements of top producing laying hens.

THE ADDED VALUE OF LinPRO FOR LAYERS

- LinPRO is a high quality source of energy and amino acids which promote optimal growth and reproduction
- The high oil content of flax provides a readily available source of Omega-3 energy
- Pulses supply a high level of readily available protein and an additional source of quality energy
- The amino acids in LinPRO are highly digestible and the nutrient profile matches the requirements of top producing birds
- LinPRO Diets:
 - Alleviate heat stress
 - Improve feed conversion
 - Increase auto-immune function
 - Enhance egg production
 - Promote better overall health

LinPRO in laying hen diets elevates levels of beneficial Omega-3 fatty acids in eggs and improves hen performance.

LAYING HEN PERFORMANCE

	Flax 10%	LinPRO 7.5% flax equivalent
Overall Egg Production, %	78.0	84.7
Feed Conversion Ratio, g of feed/g of egg	2.15:1	1.97:1
Omega-3 Content of Eggs, mg/52g egg	>300	>360
Mortality on White Leghorn Layers, %/month	0.75-1.0	0.25-0.50

Source: The effect of enzyme supplementation on egg production parameters and Omega-3 fatty acid deposition in laying hens fed flaxseed and canola seed.
W. Jia, B.A. Slominski, W. Guenter, A. Humphreys, O. Jones

LinPRO is an excellent source of lignin and Omega-3 fatty acids, known for their positive effect on heart health, the immune system and in fighting tumors.

BETTER CONVERSION

Our dry extrusion process improves digestibility for dry matter and energy, significantly improving feed conversion when compared to non-extruded blends.

THE EXTRUSION EFFECT

	Pre-extruded LinPRO	Post-extruded LinPRO
Dry Matter, %*	89.71	94.35
Gross Energy, kcal/kg*	4862	5090
TME _n , kcal/kg*	3320	3750
AME _n , kcal/kg**	1287	2397
Fecal protein digestibility, %**	32.2	41.9
Mean amino acid digestibility coefficient, %**	0.487	0.659

TME_n = True Metabolizable Energy Corrected for Nitrogen.

AME_n = Apparent Metabolizable Energy Corrected for Nitrogen.

Sources: *University of Manitoba

** Digestibility (Apparent Metabolizable Energy and Amino Acid Utilization in Broiler Chickens) of Non-extruded and Extruded LinPRO H.L. Classen

INCREASED OMEGA-3 IN EGGS

Feeding LinPRO at an inclusion rate of 15% in the commercial laying hen diet resulted in:

- Omega-3 fatty acid content of >400mg/52g egg
- 8.5% increase in egg production
- 9.0% improvement in feed efficiency

Source: Sunwest Labs and O&T Farms Results.



EASIER, MORE COST EFFECTIVE HANDLING

LinPRO supplies optimal nutrition in a dry, flowable form, which eliminates the challenges of both handling and grinding flax.

Not only does it eliminate the costs of specialized handling, it greatly reduces the challenge of feed flow problems in colder temperatures, eliminating the need for heated fat tanks at feed mixing facilities.

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