

OMEGA-3 EGGS: The Science Inside the Food

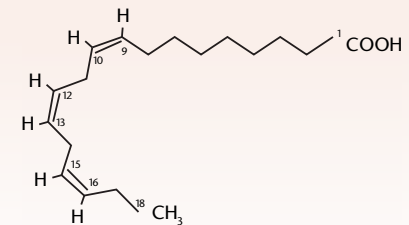
LinPRO™ A Naturally Better Source for Omega-3 Meat, Eggs and Dairy.



The benefits of essential omega-3 fatty acids have been documented for several years. However, it is only recently that consumer awareness and demand for such functional foods have begun to increase. α -linolenic acid (ALA) (C18:3n3) is one of the main forms of omega-3 fatty acids. When consumed, this fatty acid may act as a precursor for other members of the omega-3 family, such as Eicosapentaenoic acid (EPA) (C20:5n3) and Docosahexaenoic acid (DHA) (C22:6n3).

By naturally increasing the levels of omega-3 fatty acids in “everyday” foods through the use of O&T Farms’ patented flax-based LinPRO™ product, it becomes possible to produce a healthy dietary alternative with an improved Omega-6/Omega-3 ratio and significant health benefits.

ALPHA LINOLENIC ACID – 3 DOUBLE BONDS



THE PROOF IS IN THE EGGS

O & T Farm’s research initiatives have shown exemplary results in the success of omega-3 fatty acid transfer into the yolks of eggs. Demonstrational trials indicate a significant increase in the ALA content and total omega-3 content of a 50g egg, reaching levels >400 mg of omega-3.

| THE LinPRO™ EFFECT | | |
|-------------------------|-------------------------------|---|
| | Non-LinPRO™ Diet ¹ | LinPRO™ Diet-15% Inclusion ² |
| ALA (mg/50g) | 31.0 | 254 |
| Omega-6 / Omega-3 Ratio | 8.82 | 1.75 |
| Omega-3 (mg/50g egg) | 72 | 412 |

¹ Source: Canadian Nutrient File, Health Canada. ² Source: Bean, L.D. 2003 Long-term Effects of Feeding Flaxseed on Performance and Egg Fatty Acid Composition of Brown and White Hens, and O&T Farms demonstration trials.

LinPRO™ inclusion into a layers diet has a linear correlation with the levels of essential fatty acids found in the yolk of an egg. This relationship provides insight when developing target omega-3 content levels in the end product.

SENSORY EVALUATION

Demonstrational taste tests of LinPRO™ omega-3 eggs did not indicate any off-flavor, or scent when compared to regular store-bought eggs.

TECHNICAL SUPPORT

O&T Farms stands behind their products and customers by offering technical support to ensure the success of the producer’s operation.

The information contained herein is based on technical data and tests which are reliable to the best of O&T Farms Ltd’s knowledge. This information is intended for use by persons having the appropriate technical skills, at their own discretion and risk. Due to the possibility of genetic and dietary variations, the inclusion rate and formulation of diets using LinPRO™ may be different than those referred to above. Since conditions of use are outside O&T Farms Ltd’s control, no warranties or representations are made with respect to this information. O&T Farms Ltd can assume no liability for results obtained or damages incurred through the use thereof.

