

OMEGA-3 DAIRY: The Science Inside the Food

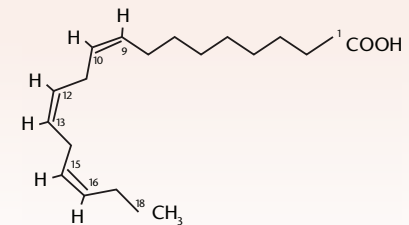
LinPRO™ A Naturally Better Source for Omega-3 Meat, Eggs and Dairy.



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 DAIRY

Feeding LinPRO products to dairy cattle is a natural way of changing the fatty acid composition of milk. O&T Farms’ research initiatives have demonstrated an increase in the omega-3 fatty acid levels, as well as an improvement of the n-6:n-3 ratio in milk produced by cattle fed LinPRO.

THE LinPRO EFFECT		
	Non-LinPRO Diet	LinPRO Diet ¹
Total Fat (%)	3.41	3.73
Total Fatty Acids (%)	2.85	3.15
ALA (%)	0.40	0.71
Omega-3 (%)	0.49	1.36
Omega-6 / Omega-3 Ratio	4.62	2.42
Omega-3 serving (mg/250ml)	41.77	126.8

¹ Source: University of Saskatchewan: Effect of an extruded flax product on milk and colostrum fatty acid composition of dairy cows. A. Foth 2011

Current product development and research initiatives on omega-3 transfers into dairy predict a further increase in omega-3 levels, and improvements in the omega-6/omega-3 ratio.

SENSORY EVALUATION

Demonstrational taste test of LinPRO Milk did not indicate any off-flavor, or scent when compared to regular store-bought milk.

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.

