



Natunola® Flax Hull Lignans

Product Description:

Natunola® Flax Hull Lignans is a concentrated ingredient, containing predominantly the outer shells or hulls of the flaxseed which provides a quality source of fiber and the plant lignan Secoisolariciresinol diglycoside (SDG). Flaxseed lignans are in high demand because of the growing amount of research that has found that SDG and other lignans found within the hull of the flaxseed may protect against hormone related cancers, such as breast and prostate cancer.

This product is: kosher certified, non-GMO, gluten free, and safe for most individuals with nut allergies.

SDG levels within the flaxseed vary depending on growing conditions including: weather, soil nutrients, length of growing season, etc. Batch calculation results, stated below, provide an approximate value of SDG levels within the Natunola® Flax Hull Lignans product.

Flaxseed Benefits:

Flaxseed is a rich source of the essential fatty acid alpha-linolenic acid (ALA) which is found within the seed's inner meat, also known as the kernel. Flaxseed is also a rich source of fiber and lignans which are found within the seed's outer shell, also known as the hull. Overall, flaxseed use is well known for its positive health benefits and has been linked to: decreased risk of cardiovascular disease, decreased risk of developing hormone associated cancers, improved immune function, and protection against type II diabetes.

Product Application

Natunola® Flax Hull Lignans can be used in a number of applications and is a novel ingredient in prepared foods such as:

Bars (snack, energy, etc) Snack Foods Cereals Muffins Crackers

Product Specifications

Appearance:	Brown flakes with some yellow flakes
Texture:	Course
Oil Content:	Average 20%
Protein Content:	Average 15%
Moisture Content:	Maximum 8%
Usage Level:	5 – 100% (wt/wt)
SDG Level:	180 – 300 mg / 10 g
Baking Stability:	Up to 350°C for up to 2 hours with minimal nutritional loss
Shelf Life:	9 Months
Storage:	Recommended storage temperature below 20°C To extend shelf life keep in a cool place away from sunlight.

Typical Nutritional Profile

Nutritional Analysis (g/100g)*	
Energy (Cal/100g)	483
Energy (kJ/100g)	2023
Fat (including Omega-3)	22.0
Omega-3	12.8
Omega-6	2.9
Carbohydrate (including fiber)	55.4
Protein	15.7
Ash	2.6
Moisture	4.3
*Batch analysis only – variances may occur within crops which may cause deviations from these values.	

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