

# FerriUp™

## Smoothie de frutos rojos

Bebida de proteína de suero de leche en polvo lista para mezclar (RTM) rica en lactoferrina y vitamina B12 para apoyar a las mujeres.

### BENEFICIOS

- FerriUp™ es una proteína de suero de leche concentrada instantánea con abundantes niveles de lactoferrina y vitamina B12 que se enfoca específicamente en la salud de la mujer
- Apoya la modulación del hierro, los niveles de energía, el rendimiento y la inmunidad en las mujeres
- Contiene 10 g de FerriUp™ por porción que proporciona 200 mg de lactoferrina y una excelente fuente de vitamina B12
- Proporciona 8g de proteína de suero de leche de alta calidad por porción
- Bebida adicionada con extracto de frutos rojos para complementar el beneficio saludable del producto

### DECLARACIÓN DE INGREDIENTES

FerriUp™ (Concentrado de proteína de suero, lecitina de girasol), BevFlax XtraSmooth (Linaza molida rica en fibra y Omega-3), Extracto de Frutos Rojos, Dioxido de silicio, Sucralosa, Goma Xantana, Acido cítrico, Sabor Blueberry, Sabor frutos rojos

### CARACTERÍSTICAS DE PRODUCTO

- Excelente valor nutricional
- Sabor suave
- Excelente dispersabilidad

### APLICACIONES DEL PRODUCTO

- Productos nutracéuticos
- Nutrición deportiva
- Bebidas en polvo listas para mezclar
- Mujeres activas

### Tabla Nutricional

1 porción por envase Tamaño de la porción (20g)	
Contenido por envase CALORIAS	<b>65</b>
	<b>Valor Diario*</b>
<b>Grasas Totales</b>	2.14g
Grasas saturadas	0.35g
Grasas trans	0g
ALA Omega 3	1g
<b>Colesterol</b>	7mg
<b>Sodio</b>	85mg
<b>Total de Carbohidratos</b>	1.80g
Fibra dietética	0.72g
<b>Proteína</b>	8g
Vitamina B12	3mcg
<b>Calcio</b>	40mg

*INFORMACIÓN DE ALÉRGENOS: contiene ingredientes lácteos*

www.glanbianutritionals.com

Halal Kosher SQF No Added rBST SEDEX



SOLUTION INFORMATION

## BevFlax™ XtraSmooth

A finely milled, whole-seed flax flour specifically designed to deliver all the nutrition of whole-seed flax with an exceptionally smooth mouthfeel.

Better nutrition,  
built around you.



# Plant-Based Beverages Boom in the Plant-Based Market

Launch activity of plant-based beverages boomed in 2021 as consumers increasingly looked to healthier options in the food and drink choices<sup>1</sup>. Specifically, consumers want plant-based beverages with functional benefits<sup>2</sup>. With 61% of consumers interested in cardio

health<sup>3</sup> and 27% of consumers interested in beverages with healthy fats<sup>4</sup>, opportunity exists to take advantage of consumer interest in functional beverages and build awareness of flax's intrinsic health benefits.

## BevFlax XtraSmooth is Specifically Designed To Support Your Beverage Goals

Available flax ingredients for beverages are gritty and have a short shelf life - limiting what nutrition brands can deliver and complicating manufacturing. Introducing BevFlax XtraSmooth, a finely milled whole-seed flax flour designed specifically to deliver all the nutritional benefits of whole-seed flax with an exceptionally smooth mouthfeel.

- Silky, smooth mouthfeel, clean nutty flavor
- Naturally rich in fiber and omgea-3 ALA
- Stable in ready-to-drink beverages
- Maintains industry leading shelf life standards:
  - MicroSure<sup>®</sup> Pllus heat treatment process
  - MeadowPure<sup>®</sup> sourcing system



### Maintains Industry Leading Shelf Life

Our patented MeadowPure<sup>®</sup> seed sourcing program and MicroSure<sup>®</sup> Plus heat treatment process guarantees the quality and safety of our flax.



ORDINARY FLAXSEED



MEADOWPURE FLAXSEED

By removing damaged, discolored and immature seeds, Glanbia Nutritionals is able to guarantee the stability of its flaxseed and control for allergens. Our 3rd party validated heat treatment removes pathogens for optimal stability while retaining texture and nutrition for a 2 year shelf life guarantee.

### BevOat Low Viscosity Applications



1. Mintel. A year of innovation in plant-based drinks, yogurt & ice cream, 2022. 2. Mintel. A year of innovation in plant-based drinks, yogurt & ice cream, 2021. 3. Mintel/Lightspeed. Base: 2,000 Internet users aged 18+. 4. Mintel. Dairy and Non-Dairy Milk: Incl Impact of Covid 19 - US. October 2020.

# BevFlax™ XtraSmooth

## PRODUCT DATA

BevFlax™ XtraSmooth is a finely milled golden flaxseed product with uniform golden color that undergoes our MeadowPure™ selection process that maintains industry leading shelf life and stability. BevFlax™ XtraSmooth undergoes our MicroSure™ Plus process, a heat treatment that involves as much as a 5-log validated kill step and results in the safest nutritional ingredients in the industry.

### TYPICAL ANALYSIS

Protein*, as is	>22%
Moisture	<10%
Fat	>40%
Fiber	>15%
Color	uniform golden
Odor	clean, fresh, mildly nutty

### SUGGESTED LABELING

- Milled flaxseed
- Non GMO
- Rich in ALA Omega-3
- Rich in fiber
- Kosher and Halal approved

### PRODUCT CHARACTERISTICS

- Dispersible
- Ready-to-eat
- Golden color
- Long shelf life
- Smooth mouth feel

### SUGGESTED USES

- Ideal for ready-to-mix and ready-to-drink beverages
- Smoothies, frozen desserts, sauces, soups, pudding
- Fruit prep, mayonnaise, whipping cream

### MICROBIOLOGICAL ANALYSIS

Standard Plate Count	<10,000 cfu/g
Coliform	<100 cfu/g
Yeast and Mold	<200 cfu/g
Coag. Pos. Staph	<10 cfu/g
Salmonella	Negative/375 g
E. coli	<10 cfu/g
Listeria	Negative/25 g

### NUTRITIONAL INFORMATION / 100G POWDER

Calories	595
Calories from Fat	-
Total Fat	45.16 g
Saturated Fat	4.38 g
Polyunsaturated Fat	31.40 g
α-Linolenic Acid (ALA Omega-3)	24.59 g
Linoleic Acid (LA Omega-6)	6.78 g
Monounsaturated Fat	9.27 g
Trans Fatty Acid	0.11 g
Cholesterol	<1.0 mg
Total Carbohydrate	22.82 g
Dietary Fiber	17.54 g
Soluble Fiber	4.79 g
Insoluble Fiber	12.75 g
Sugars	1.39 g
Added Sugars	-
Protein*, as is	24.36 g
Vitamin D	<0.5 mcg
Calcium	208 mg
Sodium	26.4 mg
Potassium	680 mg
Iron	1.48 mg

### AMINO ACID PROFILE G / 100G POWDER

Aspartic Acid	1.952
Threonine	0.722
Serine	0.910
Glutamic Acid	3.954
Glycine	1.038
Alanine	0.825
Valine	0.956
Isoleucine	0.809
Leucine	1.148
Tyrosine	0.560
Phenylalanine	0.981
Histidine	0.425
Lysine	0.755
Arginine	2.030
Proline	0.671
Cystine	0.346
Methionine	0.373
Tryptophan	0.47

### PACKAGING AND STORAGE

5 ply polywoven bag

Net weight 50 lb (22.68 kg)

Store in a cool, dry, clean environment below 22° C (72° F) and at relative humidity below 65%

Keep away from strong odors and other contaminants

Use stocks in rotation for up to two years

# FerriUp™

FerriUp™ is an instantized whey protein with abundant levels of Lactoferrin and Vitamin B12, providing a strong nutrient foundation that supports iron modulation, energy levels and immune health for active women.

Halal    Kosher    SQF    No Added rBST    SEDEX

## PRODUCT CHARACTERISTICS

- Excellent nutritional value
- Mild flavor
- Excellent dispersibility

## PRODUCT APPLICATIONS

- Nutraceutical products
- Sports nutrition
- Ready-to-mix powder beverages
- Active women
- Maternal health

## PACKAGING

- Gooseneck tied poly bag in a sealed multi-wall Kraft paper sack
- Net weight 15 kg (33.069 lb)

## STORAGE AND HANDLING

Store in a cool, dry, clean environment below 25°C (77°F) and at relative humidity below 65%

Keep away from strong odors and other contaminants

Use stocks in rotation for up to two years

## SUGGESTED LABELING

Whey protein powder, sunflower lecithin

Allergen information: contains milk ingredients

**FerriUp™**  
**Technical Overview – 04/2022**

**For further information please contact**  
**Glanbia Nutritionals:**  
**Tel: 844 303 7304**  
**[www.glanbianutritionals.com](http://www.glanbianutritionals.com)**

Information in this bulletin is believed to be accurate and is offered in good faith for the benefit of the customer. However, we cannot assume any guarantee against patent infringement, liabilities or risks involved from the use of these products, formulas and information. The information and / or opinions contained in this document may be changed at any time without notice.

## NUTRITIONAL INFORMATION / 100G

Calories	388.50 kcal
Total Fat	3.38 g
Saturated Fat	1.77 g
Polyunsaturated Fat	0.38 g
Monounsaturated Fat	0.97 g
Trans Fatty Acid	0.10 g
Cholesterol	75.95 mg
Total Carbohydrate	4.80 g
Dietary Fiber	0.0 g
Sugars	2.94 g
Added Sugars	0.0 g
Protein, as is	84.76 g
Vitamin B12	34.83 mcg
Vitamin D	<0.01 mcg
Calcium	369 mg
Sodium	305.5 mg
Potassium	478 mg
Iron	0.9 mg

## TYPICAL ANALYSIS AND LIMITS

CHEMICAL ANALYSIS	LIMITS
PROTEIN, AS IS	≥ 80%
MOISTURE	≤ 5.0%
FAT	≤ 8.0%
ASH	≤ 5.0%
LACTOFERRIN	≥ 2.0%

This product contains\* 3.7 ug/10 g Vitamin B12

\*These are typical values based on historical analysis only, not tested on every lot, minor variations may occur

MICROBIOLOGICAL ANALYSIS	LIMITS
STANDARD PLATE COUNT	≤ 1,000 cfu/g
COLIFORM	< 10 cfu/g
YEAST & MOULD	< 50 cfu/g
COAG POS STAPH	< 10 cfu/g
LISTERIA	Negative/50 g
SALMONELLA	Negative/375 g

## TYPICAL PHYSICAL PROPERTIES

pH (10% at 20°C)	5.2 – 7.2
------------------	-----------

## TYPICAL AMINO ACID PROFILE

AMINO ACID	G / 100G POWDER	AMINO ACID	G / 100G POWDER
Aspartic Acid	10.22	Tyrosine	2.74
Threonine	6.60	Phenylalanine	2.93
Serine	4.64	Histidine	1.67
Glutamic Acid	16.19	Lysine	8.76
Glycine	1.73	Arginine	2.39
Alanine	5.04	Proline	5.69
Valine	5.60	Cystine	2.15
Isoleucine	6.16	Methionine	2.14
Leucine	10.19	Tryptophan	1.83

Information in this bulletin is believed to be accurate and is offered in good faith for the benefit of the customer. However, we cannot assume any guarantee against patent infringement, liabilities or risks involved from the use of these products, formulas and information. The information and / or opinions contained in this document may be changed at any time without notice.

For further information please contact  
**Glanbia Nutritionals:**  
 Tel: 844 303 7304  
[www.glanbianutritionals.com](http://www.glanbianutritionals.com)



SOLUTION INFORMATION

# FerriUp™

Lactoferrin and vitamin B12 rich whey protein concentrate optimized to support active women.

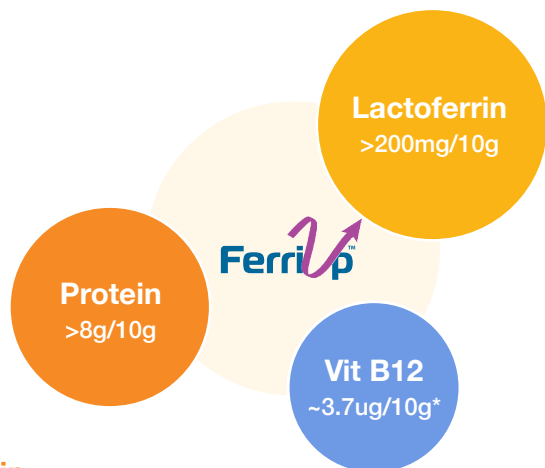
*We're built around you.* Just add Glanbia.



# Designed for Women, FerriUp™ Provides Them with a Strong Nutrient Foundation

Emerging evidence underscores the importance of a nutritional strategy for active females throughout their lifecycle – puberty, pregnancy and menopause.<sup>1</sup> The sports nutrition market lacks focus in this area with only 0.6% of sports nutrition product launches in North America targeting women.<sup>2</sup> FerriUp is a whey protein concentrate that naturally contains abundant levels of lactoferrin, vitamin B12 and 80% protein, providing a strong nutrient foundation that supports iron modulation, energy levels and immune health for active women.

## FerriUp Supports Women in Many Ways



### Lactoferrin

- Women's iron needs tend to be greater because they lose iron through menstruation.
  - Lactoferrin supports the utilization and balance of iron in the body.<sup>3</sup>
- Active women who engage in strenuous athletic activities face the potential of low energy from iron deficiency.<sup>4</sup>
  - Lactoferrin has been shown to help retain higher levels of red blood cells in active females, indicating that higher iron levels remain.<sup>5</sup>

### Protein

- FerriUp is a good source of whey protein, containing over 80% protein per dose.
- Consuming whey protein after exercise may help speed the rebuilding of muscle by increasing muscle synthesis.<sup>6,7</sup>
- Consuming whey protein during or after exercise may help reduce muscle soreness and may improve muscle function and/or performance in the next workout.<sup>8,9,10</sup>
- Studies show that active women have demonstrated a marked increase in successful muscle protein synthesis when they consume protein-rich foods after exercise.<sup>11</sup>
- Protein supplementation helps maintain lean muscle mass and can support bone strength and health.<sup>11</sup>

### Vitamin B12

- Vitamin B12 must be obtained from dietary sources as the body cannot synthesize it.<sup>12</sup>
- Vitamin B12 is involved in red blood cell formation and maintenance of proper immune function which is critical for optimal athletic performance.<sup>12</sup>
- Vitamin B12 deficiency can cause fatigue, shortness of breath, loss of balance, which may lead to a decrease of athletic performance.<sup>13</sup>

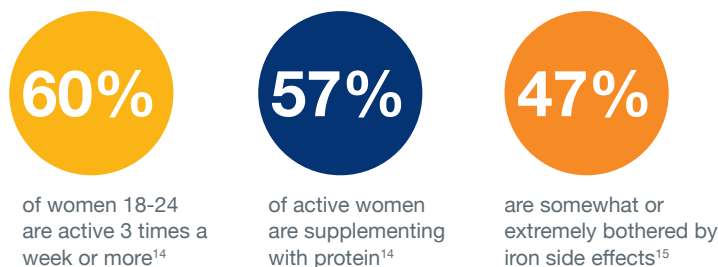
## Ideal Applications



### Instantized powder

- No clumping or floating powder
- Rapid dispersibility
- No sedimentation
- Cold water dispersible

## Benefits Align with Women's Needs



\*This is a typical value based on historical analysis only, not tested on every lot, minor variations may occur. 1. Journal of international society of sports science, review, sex differences and considerations for female specific nutritional strategies 2021, 2. Mintel GNPD & Innova Jan 2018-Apr 2022, 3. Paesano, et al., (2010), Lactoferrin efficacy versus ferrous sulfate in curing iron deficiency and iron deficiency anemia in pregnant women and non-pregnant women, 4. Peeling P, Dawson B, Goodman C, Landers G, Trinder D. (2008) Athletic induced iron deficiency: new insights into the role of inflammation, cytokines and hormones., 5. Kolkawa N. et al., (2008) Preventive Effect of Lactoferrin Intake on Anemia in Female Long Distance Runners, 6. Tang JE, et al. Appl Physiol Nutr Metab. 2007; 32: 1132-38., 7. Hulmi JJ, et al. Nutr Metab. 2010; 7(1): 51., 8. Romano-Ely BC, et al. Med Sci Sports Exerc. 2006; 38(9): 1608-16., 9. Luden ND, et al. Int J Sport Nutr Exerc Metab. 2007; 17(1): 109-23, 10. Valentine RJ, et al. Int J Sport Nutr Exerc Metab. 2008; 18(4): 363-78, 11. Br J Sports Med. 2006 Sep; 40(9): 742-748., 12. Nutrients. 2020 Apr 9;12(4):1038., 13. Int J Sport Nutr Exerc Metab. 2006 Oct;16(5):453-84, 14. Glanbia Nutritionals Survey, January 2022, n=410, US women age 18-45 that purchase or open to purchasing vitamins & supplements, 15. Glanbia Nutritionals Survey, January 2022, n=165, US women age 18-45 that purchase or open to purchasing vitamins & supplements