



DAIRY PRODUCTS, INC.



Suggested Labeling: Milk Permeate, Milk Permeate Powder and Dairy Product Solids

Allergens: Contains milk

| Nutrition Facts | |
|---|---|
| Serving Size (100g) Servings Per Container | |
| Amount Per Serving | |
| Calories 150 | Calories from Fat 35 |
| <small>% Daily Value*</small> | |
| Total Fat 4g | 6% |
| Saturated Fat 2.5g | 13% |
| Trans Fat 0g | |
| Cholesterol 15mg | 5% |
| Sodium 70mg | 3% |
| Total Carbohydrate 24g | 8% |
| Dietary Fiber 0g | 0% |
| Sugars 23g | |
| Protein 4g | |
| Vitamin A 2% | • Vitamin C 2% |
| Calcium 15% | • Iron 0% |
| <small>*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs:</small> | |
| | <small>Calories: 2,000 2,500</small> |
| Total Fat | Less than 65g 80g |
| Saturated Fat | Less than 20g 25g |
| Cholesterol | Less than 300mg 300mg |
| Sodium | Less than 2,400mg 2,400mg |
| Total Carbohydrate | 300g 375g |
| Dietary Fiber | 25g 30g |
| <small>Calories per gram: Fat 9 • Carbohydrate 4 • Protein 4</small> | |

Soft Serve Frozen Dairy Dessert with Nutrose Milk Permeate

Grassland Dairy Product, Inc.'s Nutrose is a milk permeate powder produced directly from fresh whole or skim milk resulting in a versatile milk powder containing the lactose, vitamins and minerals naturally found in milk. Unlike other permeate powders, Grassland's Nutrose is not a byproduct of cheese production, but rather is extracted directly from milk, leading to a consistent clean milky flavor and light cream color without the use of additives or processing aids.

Application for Milk Permeate in Soft Serve

| Ingredients | Amount |
|-------------------------------------|--------|
| Water | 66.6% |
| Sucrose | 15% |
| Stabilizer and Emulsifier | 0.4% |
| Grassland Nonfat Dry Milk, low heat | 10.5% |
| Nutrose Milk Permeate | 3.5% |
| Grassland Anhydrous Milkfat | 4% |

Nutrose Benefits:

- Enhancement of dairy flavor notes
- Clean label for packaging ingredient panels
- Recognized by United States FDA as Generally Recognized as Safe (GRAS) for food applications
- Cost reduction in formulation compared to use of other milk powders

Soft Serve Cost Analysis

Soft Serve (NFDM) control: \$2.3812 per pound
Soft Serve (Nutrose): \$2.3462 per pound

Savings of \$0.0350 per pound!

*Cost analysis is based on ingredient prices in Wisconsin area and based on June 1, 2016 dairy markets. Prices are subject to change.

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