



AMERICAN
Dairy Products
INSTITUTE®

Colostrum Powder (Whole & Skim)

Product Definition

Whole Colostrum Powder is obtained by the drying of colostrum, which comes from cows within 48 hours after giving birth. Whole Colostrum Powder contains at least 17.5% fat, proteins, carbohydrates, vitamins and minerals.

Skim Colostrum Powder is obtained by the partial removal of fat and water from colostrum. Skim Colostrum Powder contains not more than 6% fat, proteins, carbohydrates, vitamins and minerals.

Whole and Skim Colostrum Powders for human consumption comply with all provisions of the U.S. Federal Food, Drug, and Cosmetic Act.

Composition

PARAMETER	UNITS OF MEASURE	WHOLE COLOSTRUM POWDER		SKIM COLOSTRUM POWDER	
		TYPICAL VALUES	LIMITS	TYPICAL VALUES	LIMITS
PROTEIN	%	50.5	40.0 - 62.5	61.5	50.0 - 72.5
CARBOHYDRATES	%	17.5	35.0 maximum	21.5	35.0 maximum
FAT	%	22.0	17.5 - 30.0	4.0	6.0 maximum
TOTAL MOISTURE	%	4.5	6.0 maximum	4.5	6.0 maximum
ASH	%	6.0	-	7.5	-

Other Characteristics

PHYSICO-CHEMICAL PROPERTIES				
PARAMETER	WHOLE COLOSTRUM POWDER		SKIM COLOSTRUM POWDER	
	UNITS OF MEASURE	LIMITS	UNITS OF MEASURE	LIMITS
SCORED PARTICLES	mg/25g	15.0 maximum	mg/25g	15.0 maximum
pH	10% solution @ 20°C	6.0 - 7.0	10% solution @ 20°C	6.0 - 6.8
IgG	%	12.5 - 25.0	%	15.0 - 30.0

Product Labeling

Recommended identifications: Whole Colostrum Powder
Skim Colostrum Powder

Nutritional Attributes

Colostrum contains bioactive components like immunoglobulins, lactoferrin, and growth factors. Claims focus on its ability to support or strengthen the immune system through IgG levels. Studies indicate that bovine colostrum may primarily counteract the increase in proinflammatory cytokines which may reduce mucosal inflammation and improve gut health¹. Colostrum supplementation can reduce inflammation levels and support immunity, allowing athletes to recover faster from intense training which may improve muscle recovery and athletic performance².

¹Chandwe K, Kelly P. *Colostrum Therapy for Human Gastrointestinal Health and Disease*. Nutrients. 2021; 13(6):1956.

² Mizelman E, et.al. *Bovine colostrum supplementation in rugby*. Eur J Appl Physiol. 2025

Functionality and Applications



HIGH PERFORMANCE:

Solubility



LIMITATION:

Heat Sensitive

Colostrum Powder is typically used in supplements as ready to mix beverages, dairy product analogs, infant nutrition, milk products, nutrition bars, snacks, and others.

Colostrum is heat sensitive as the bioactivity of colostrum decreases with high heat processing.

Product Examples

(launched in the last 2 years) Credit: Innova Market Insights



Dietworks GLP-1 Companion Semaglutide Support Dietary Supplement: Colostrum mixed with probiotics in this product is reported to promote digestion and regularity plus support healthy weight loss and boost energy levels.



Armra Colostrum Soda: Using a cold-chain pasteurization technology, this soda features colostrum promoted to help immunity, gut metabolism, skim, hair, fitness recovery and more.



Nutrifood Grow Plus Cream Dessert for Babies from 6 months Onwards: Colostrum is an added ingredient in this product for developing children to support a healthy immune system and good digestion.



1 Up Nutrition Colostrum Plus Metabolic Postbiotics Dietary Supplement: Colostrum mixed with metabolic postbiotics in this supplement is aimed at supporting healthy weight management, fat loss and total-body vitality.



Yili Flavored Colostrum Milk Candy: This candy product, produced and sold in China, promotes a unique way of blending colostrum with whole and skim milk powder to produce a candy that is portable and easily digestible.



Equip Prime Bar: Colostrum is blended with beef protein in this protein bar, promoted to help gut health, immunity and recovery for those with sensitive digestion.