

Dairy for Global Nutrition

QUICK INGREDIENT GUIDE

The following table provides information to assist you in determining which dairy ingredients to explore further when developing a new or reformulated product. The information in this table is based on the most current data available. Product information and pricing will vary by supplier. For the most up-to-date information please contact a supplier of dairy ingredients to request pricing information and product specification sheets.

	Dry Sweet Whey	WPC34	WPC80	WPI	Skim Milk Powder
Nutritional Properties					
High protein			x	x	
Protein source	x	x	x	x	x
Medium – high lactose	x	x			x
Low lactose			x	x	
Low minerals				x	
Low sodium			x		x
Total Amino Acids*	12.3 g	32.0 g	78.9 g	95.9 g	38.0 g
Total BCAAs*	2.6 g	7.2 g	17.3 g	24.3 g	8.1 g
Functional Properties					
Browning	x	x			x
Emulsification		x	x	x	
Fat binding			x	x	x
Foaming/Whipping			x	x	x
Gelling			x	x	x
Solubility	x	x	x	x	x
Other Factors					
Cost/kg product**	\$0.51	\$1.26	\$5.34	\$10.68	\$1.89
Cost/kg protein**	\$4.10	\$3.70	\$6.68	\$5.63	\$5.11
Shelf life***	Use within 6-12 months	Use within 12 months	Use within 12 months	Use within 12 months	12-18 months (6-12 months for instant)
Availability	Excellent	Excellent	Excellent	Excellent	Excellent

* Grams per 100 g edible protein. Content will vary by supplier and ingredient protein level.

** Source: "Ingredient Market Trends." *Food Business News*. 5 Jan. 2007 - 24 Nov. 2009. Print.

*** Source: *Reference Manual for U.S. Milk Powders*. Arlington, VA: U.S. Dairy Export Council, 2005.; *Reference Manual for U.S. Whey and Lactose Products*. Arlington, VA: U.S. Dairy Export Council, 2005.; Check with the supplier as standards may vary.

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