



DAVISCO
FOODS INTERNATIONAL, INC.*

BiPRO[®]

Whey Protein Isolate

Product Description

BiPRO is manufactured from fresh, sweet dairy whey that is concentrated and spray dried. The product is a homogenous, free flowing, semi-hygroscopic powder with a clean, bland flavor.

Product Functionality

BiPRO is a unique, natural and pure dairy protein comprised of beta-lactoglobulin and alpha-lactalbumin. *BiPRO*'s functional protein groups have valuable gelling, water binding, emulsification, and aeration properties. *BiPRO* replaces larger quantities of other functional ingredients providing improved flavor and mix efficiency. *BiPRO* is not denatured and is fully soluble over the pH range 2.0 to 9.0. *BiPRO* is lactose-free.

<u>Analysis*</u>	<u>Specification</u>	<u>Typical Range</u>	<u>Test Method</u>
Moisture (%)	5.0 max.	4.6 ± 0.3	Vacuum Oven
Protein, dry basis (N x 6.38) (%)	95.0 min.	97.6 ± 0.3	Leco Combustion
Fat (%)	1.0 max.	< 0.5	Mojonnier
Ash (%)	3.0 max.	2.0 ± 0.2	Residue on Ignition
Lactose (%)	1.0 max.	0.4 ± 0.2	By Difference
pH	6.7 - 7.5	7.0 ± 0.2	10% Sol. @ 20°C.
Scorched Particles	15 mg/25g max.	7.5mg	ADPI

<u>Microbiological Profile</u>	<u>Specification</u>	<u>Typical Range</u>	<u>Test Method</u>
Aerobic Plate Count	10,000/g max.	< 2,500	Standard Methods**
Coliform (MPN)	10/g max.	< 10	FDA/BAM
<i>E. coli</i> (MPN)	Negative/g	Negative	FDA/BAM
Yeast & Mold	10/g max.	≤ 10	Standard Methods**
Coag. Pos. Staph (MPN)	< 10/g	< 10	FDA/BAM
Salmonella sp.	Negative/1500 g	Negative	AOAC / ELISA
Listeria sp.	Negative/25 g	Negative	AOAC / ELISA

* All results reported on "AS IS" basis except where noted.

** Standard Methods for the Examination of Dairy Products, 16th Edition.

Storage and Packaging

Dried dairy products can absorb odors and moisture. Therefore, adequate protection is essential. Shelf life will be enhanced through ideal storage conditions which include temperatures below 25°C., relative humidity below 65%, and an odor free environment. Avoid less than ideal storage conditions.

Packaged in Kraft multiwall bags incorporating a polyethylene bag liner, individually closed and Lined/Unlined Totes.

Net wt: 33 lb. Bag
Net wt: 1600 lb. Tote
Net wt: 1800 lb. Tote
Net wt: 2000 lb. Tote

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