

## Whey Permeate (Dairy Products Solids)

### Production Definition

Whey Permeate also known as Deproteinized Whey (DPW) is a modified dairy product (permeates and products derived there from) obtained by the removal of protein from whey. The product is appropriately labeled to reflect the maximum protein and ash, and the minimum lactose contents. Removal of the whey protein is accomplished by physical separation techniques such as precipitation, filtration or dialysis. The acidity of DPS may be adjusted by the addition of safe and suitable pH adjusting ingredients. DPS for human consumption complies with all provisions of the U.S. Federal Food, Drug, and Cosmetic Act.

### Typical Compositional Range<sup>1</sup>

#### Percentage

Protein.....	3.0 – 8.0
Lactose.....	65.0 – 85.0
Fat .....	0.0 – 1.0
Ash.....	8.0 – 20.0
Moisture.....	3.0 – 5.0

### Microbiological Analysis

Standard Plate Count .....	< 30,000/g
Coliform.....	< 10/g
Salmonella .....	negative
Listeria .....	negative
Coagulase-positive	
Staphylococci.....	negative

### Other Characteristics

Scorched Particle Content .....	7.5 – 15.0 mg
pH.....	5.7 – 6.5
Color.....	white to cream
Flavor .....	bland, clean

### Ingredient Statement

“Dairy Product Solids (max. \_\_\_\_\_ % protein, max. \_\_\_\_\_ % ash, min. \_\_\_\_\_ % lactose)”.  
A 10% range allowed provided an analysis of the product is supplied.

### Production Applications and Functionality

Bakery products, fermentation, sugar and corn syrup replacers

### Storage & Shipping

Product should be stored and shipped in a cool, dry environment with temperatures below 80°F and relative humidity below 65%. Stocks should be rotated and utilized within 9 months to 1 year.

### Packaging

Multiwall kraft bags with polyethylene inner liner or other approved closed container. (*i.e.* “*tote bins,*” *etc*)

<sup>1</sup> On an “as is” basis

The information contained herein is, to the best of our knowledge, correct. No warranties, expressed or implied, are made. This information is offered solely for your investigation, verification, and consideration. It is suggested that you evaluate the product prior to use in production.