

# Berkshire

Dairy and Food Products, Inc.

## WPC34

### Product Definition

Whey protein concentrate- USPH Grade A, Kosher approved.

### Product Applications

WPC may be used in food products as a partial nonfat milk replacer or to improve texture of low fat items; in nutritional beverages, nutritional food bars, nutritional supplements, infant foods, yogurts, processed cheese, sausage products and many other diverse applications; can also be used as a protein source for feed.

### Chemical Analysis

	<u>Typical Values</u>	<u>Specification</u>	<u>Methodology</u>
Protein	35.0%	34-38%	Kjeldahl
pH	6.5	6.0 - 7.0	Combination electrode
Moisture	4.0%	4.5% max.	Vacuum Oven 149° F (65° C)
Butterfat	< 4.0%	4.0% max.	Rose – Gottlieb (Ether extraction)
Ash	< 7.0%	8.0% max.	Residue on Ignition
Sediment	Disc A (7.5mg/25g)	Disc A (7.5mg/25g) max.	ADPI

### Microbiological Standards

	<u>Typical Values</u>	<u>Specification</u>	<u>Methodology</u>
Total Aerobic Count	< 5,000/g	20,000/g max.	Standard Methods Agar
Salmonella	Negative	Negative/750g	FDA-BAM
Coliform	< 10/g	10/g max.	Violet Red Bile Agar
Yeast and Mold	< 10/g	10/g max.	Acidified Potato Dextrose Agar

### Particle Size

	<u>Typical Values</u>	<u>Specification</u>
Passing #40 screen	> 99%	98% min.

### Nutritional Information\*

(Mean/100g)

Calories .....	364.67	Sugars (%).....	48.99
Calories from fat.....	20.07	Protein (g) .....	34.95
Total Fat (g) .....	2.23	Sodium (mg) .....	505.50
Saturated Fat (%).....	1.23	Calcium (mg) .....	605.00
Trans Fatty Acids (g).....	0.06	Iron (mg).....	0.78
Cholesterol (mg).....	99.50	Vitamin A (IU).....	119.05
Total Carbohydrate (g).....	51.20	Vitamin C (mg) .....	1.22

\*Nutritional results, although based on limited testing, fall within the expected manufacturing ranges.

### Ingredient Statement

Whey Protein Concentrate (milk)

### Physical Characteristics

Appearance: Light cream color; free flowing.  
Flavor and Odor: Sweet dairy flavor; no foreign flavor or odor.

### Packaging and Storage

Packaged in 50 lb (22.68 kg) bags. Multi-wall Kraft bags with 3.0 mil high density poly liner. Product is recommended to be stored at no more than 80° F (27° C) and relative humidity under 75%.