

Dry Whole Milk (DWM)

Production Definition

Dry Whole Milk usually is obtained by the removal of water from pasteurized milk, which also may have been homogenized. Alternatively, DWM may be obtained by blending fluid, condensed or nonfat dry milk with liquid or dry cream or with fluid, condensed or dry milk, provided the resulting DWM is equivalent in composition. It contains not less than 26% but less than 40% milkfat (by weight) on an ‘as is’ basis and not more than 5% moisture (by weight) on a milk solids-not-fat basis. Optionally, it may be fortified with either Vitamins A or D, or both. The primary DWM products are those having 26.0% and 28.5% milkfat. DWM for human consumption complies with all provisions of the U.S. Federal Food, Drug, and Cosmetic Act.

Typical Compositional Range¹

	<i>Percentage</i>
Protein.....	24.5 – 27.0
Lactose.....	36.0 – 38.5
Fat ²	26.0 – 28.5
Ash.....	5.5 – 6.5
Moisture ²	2.0 – 4.5

Microbiological Analysis

Standard Plate Count ²	≤ 10,000/g
Coliform ²	≤ 10/g
Salmonella.....	negative
Listeria.....	negative
Coagulase-positive Staphylococci.....	negative

Other Characteristics

Scorched Particle Content ²	7.5 – 15.0 mg
Solubility Index ²	≤ 1.2 ml
	≤ 2.0 ml – high-heat
Titrateable Acidity ²	≤ 0.15%
Color ²	white to light cream/natural color
Flavor ²	clean and pleasing

Ingredient Statement

‘Dry Whole Milk (_____ % milkfat)’. If vitamins are added, appropriate declaration shall appear on the package.

Production Applications and Functionality

Confectionery, bakery products, packaged dry mixes, dairy products, soups, sauces, frozen foods, beverage use

Storage & Shipping

Product should be stored and shipped in a cool, dry environment with temperatures below 80°F and relative humidities below 65%. Stocks should be rotated and utilized within 6 to 9 months.

Packaging

Multiwall kraft bags with polyethylene inner liner or other approved closed container. (*i.e.* ‘*tote bins*’, *etc.*) Product also packaged in smaller sizes for retail sale.

¹ On an ‘as is’ basis

² USDA Grade parameters (7 CFR §58.2705)