

Dairy Ingredients Composition Chart



AMERICAN
Dairy Products
INSTITUTE®

Dried Dairy Ingredient Composition Summary¹

	WHEY PROTEINS									MILK PROTEINS							
	Dry Acid Whey	Dry Sweet Whey	RM Whey	WPC34	WPC80	WPI	WPPC	IG WPPC	mWPC80	DWM	WMP	NFDM	SMP	DBM	MPC70	MPC80	MPI
PROTEIN	/	/	17.0 max	33.5 min	79.5 min	89.5 min	50.0 min	50.0 min	79.5 min	/	34.0 min	/	34.0 min	30.0 min	69.5 min	79.5 min	89.5 min
FAT	1.5 max	1.5 max	4.0 max	5.0 max	10.0 max	1.5 max	12.0 min	12.0 min	2.0 max	26.0 - 40.0	26.0 - 42.0	1.25 max	1.50 max	4.5 min	2.50 max	2.50 max	2.5 max
MOISTURE	5.0 max	5.0 max	5.0 max	6.0 max	6.0 max	6.0 max	6 max	6.0 max	6.0 max	4.5 max	4.5 max	4.0 max	5.0 max	4.0 max	6.0 max	6.0 max	6.0 max
LACTOSE	/	/	82.0 max	48.0 - 55.0 ²	4.0 - 10.0 ²	0.5 - 1.0 ²	/	8.0 max	13.0 max	/	/	/	/	/	20.0 max	9.0 max	5.0 max
MINERALS	/	/	7.0 max	6.5 - 8.0 ²	3.0 - 5.0 ²	2.0 - 3.0 ²	8 max	4.0 min	5.0 max	/	/	/	/	/	10.0 max	6.0 max	6.0 max

	CASEINS						CARBOHYDRATES						FATS			
	MCC 70	MCC 80	MCI	Acid Casein	Rennet Casein	Caseinates	Milk Permeate	Whey Permeate	Lactose	IG Lactose	GOS Powder	GOS Syrup	AMF	Butteroil	Butter	Cream Powder
PROTEIN	69.5 min	79.5 min	89.5 min	90.0 min	84.0 min	90.0 min	2 min	7 max	0.30 max	0.30 max	0.7 max	0.7 max ³	/	/	/	34.0 min
FAT	2.50 max	3.00 max	3.00 max	2.0 max	2.0 max	2.0 max	1.5 max	1.5 max	/	/	/	/	99.8 min	99.6 min	80.0 min	42.0 min
MOISTURE	6.0 max	6.0 max	7.0 max	12.0 max	12.0 max	6.0 max	5.0 max	5.0 max	6.0 max	6.0 max	4.5 max	28 max	0.1 max	0.3 max	/	5.0 max
LACTOSE	16.0 max	10.0 max	1.0 max	1.0 max	1.0 max	1.0 max	76 min	76 min	99.0 min	99.0 min	30 max	24 max ³	0.1 max	0.1 max	/	/
MINERALS	8.0 max	8.0 max	8.0 max	2.5 max	7.5 max	/	14 max	14 max	0.30 max	0.20 max	0.5 max	0.5 max ³	/	/	/	/

Legend

AMF Anhydrous Milk Fat
 DBM Dry Buttermilk
 DWM Dry Whole Milk
 IG WPPC and IG Lactose Infant Formula Grade
 GOS Galacto-oligosaccharides
 MCC Micellar Casein Concentrate
 MCI Micellar Casein Isolate
 MPC70 Milk Protein Concentrate 70%
 MPC80 Milk Protein Concentrate 80%
 MPI Milk Protein Isolate

mWPC80 Milk Whey Protein Concentrate 80%
 NFDM Nonfat Dry Milk
 RM Whey Reduced Minerals Whey
 SMP Skim Milk Powder
 WMP Whole Milk Powder
 WPC34 Whey Protein Concentrate 34%
 WPC80 Whey Protein Concentrate 80%
 WPI Whey Protein Isolate
 WPPC Whey Protein Phospholipid Concentrate (Also MFGM)

The following carbohydrates are also identified as shown below (Dairy Permeate and Dairy Products Solids are acceptable for both Milk and Whey Permeate):

Lactose Milk Sugar, Edible Lactose, Food Grade Lactose
 Milk Permeate Dairy Permeate, Dairy Products Solids
 Whey Permeate Dairy Permeate, Dairy Products Solids, Deproteinized Whey, Dried Whey Product, Dried Whey Solubles

(1) Units for any given parameter may vary from ingredient to ingredient, e.g., some are dry basis while others are as-is. Please consult the ADPI Ingredient Standard for full details on any ingredient in question.

(2) Typical values are shown here, where the ADPI Ingredient Standards do not set strict limits for minimum or maximum content. Actual product composition may vary.

(3) On a dry basis