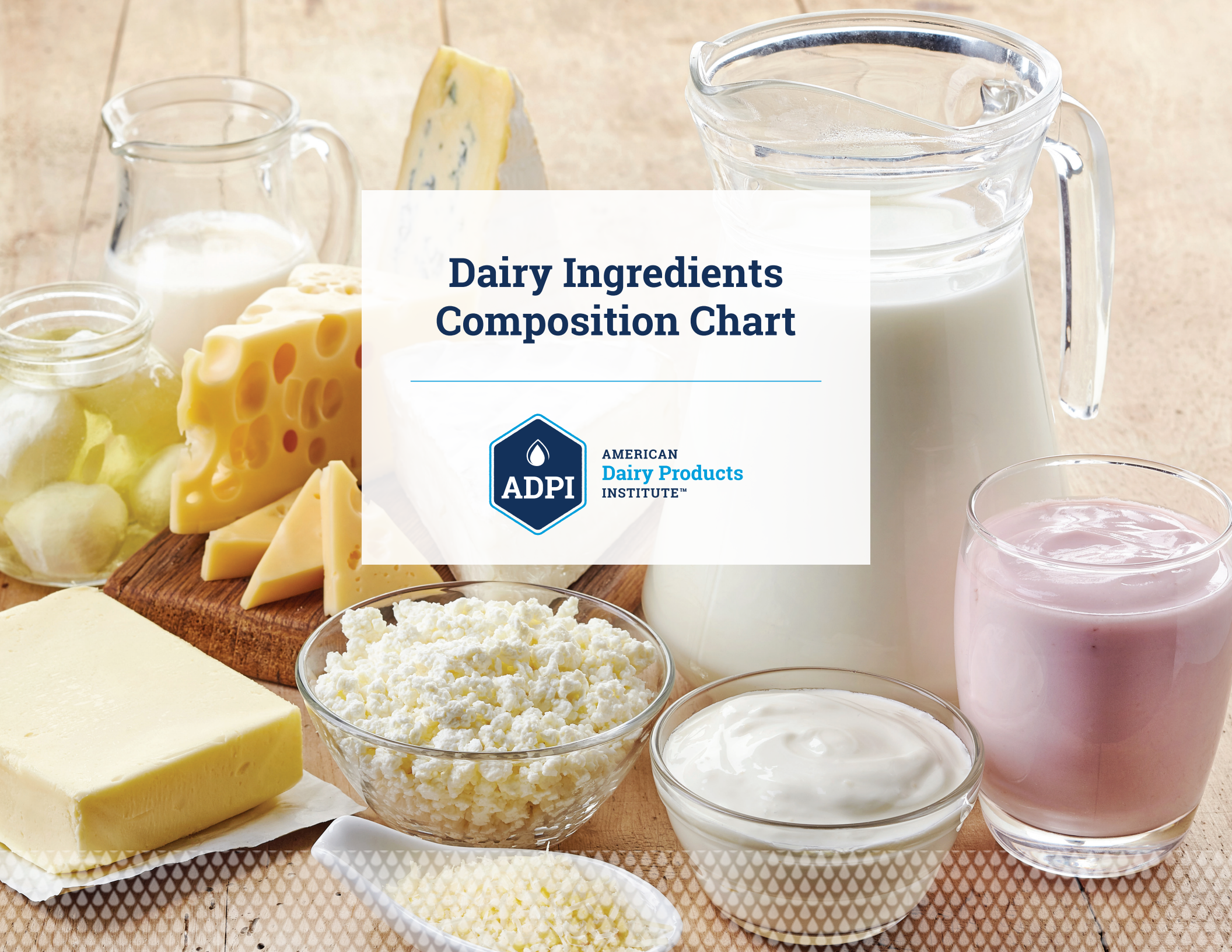




Dairy Ingredients Composition Chart



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	mWPC34	mWPC80	WMP	NFDM	SMP	DBM	MPC70	MPC80	MPI
PROTEIN			17.0 max	33.5 min	79.5 min	89.5 min	50.0 min	33.5 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	2.0 max	2.0 max	26.0 - 42.0	1.25 max	1.50 max	4.5 min	2.50 max	2.50 max	2.50 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	4.0 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		55.0 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	7.5 max	5.0 max					10.0 max	6.0 max	6.0 max

	CASEINS						CARBOHYDRATES		
	Micellar Casein Concentrate 70	Micellar Casein Concentrate 80	Micellar Casein Isolate	Acid Casein	Rennet Casein	Caseinates	Milk Permeate	Whey Permeate	Lactose
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
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	
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
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
MINERALS	8.0 max	8.0 max	8.0 max	2.5 max	7.5 max		14 max	14 max	0.30 max

Legend

DBM.....Dry Buttermilk
MPC70Milk Protein Concentrate 70%
MPC80Milk Protein Concentrate 80%
MPI.....Milk Protein Isolate
mWPC34.....Milk Whey Protein Concentrate 34%
mWPC80.....Milk Whey Protein Concentrate 80%
NFDM.....Nonfat Dry Milk
RM WheyReduced Minerals Whey
SMPSkim Milk Powder

WMPWhole Milk Powder
WPC34Whey Protein Concentrate 34%
WPC80Whey Protein Concentrate 80%
WPIWhey 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 PermeateDairy 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.

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