

U.S. Dairy Ingredient References

INGREDIENT	INGREDIENT STATEMENT	REFERENCE(S)* **
Skim milk, concentrated skim milk, reconstituted skim milk and nonfat dry milk	“SKIM MILK” or “NONFAT MILK”	21 CFR § 101.4 (b)(3)
Removal of water only from pasteurized skim milk Not more than 5% moisture, not more than 1.5% milkfat	“NONFAT DRY MILK”	21 CFR § 131.125
Milk, concentrated milk, reconstituted milk and dry whole milk	“MILK”	21 CFR § 101.4 (b)(4)
Bacterial cultures may be declared by the word “cultured” followed by the name of the substrate	Examples: “CULTURED SKIM MILK” or “CULTURED BUTTERMILK”	21 CFR § 101.4 (b)(5)
Sweetcream buttermilk, concentrated sweetcream buttermilk, reconstituted sweetcream buttermilk and dried sweetcream buttermilk	“BUTTERMILK”	21 CFR § 101.4 (b)(6)
Cream, reconstituted cream, dried cream and plastic cream (sometimes known as concentrated milkfat)	“CREAM”	21 CFR § 101.4 (b)(8)
Butteroil and anhydrous butterfat	“BUTTERFAT”	21 CFR § 101.4 (b)(9)
Whey, concentrated whey, reconstituted whey and dried whey	“WHEY”	21 CFR § 101.4 (b)(7)
Protein content 10-15% Fat content 0.2-2.0% Ash content 7-14% Lactose content 61-75% Moisture content 1-8%	“WHEY”	21 CFR § 184.1979
Removal of water from whey while leaving all other constituents in the same proportions	“DRY or DRIED WHEY”	21 CFR § 184.1979
Whey with a maximum titratable acidity of not more than 0.16%	“SWEET WHEY”	21 CFR § 184.1979
Whey with a significant amount of lactose converted to lactic acid, or from curd formation by direct acidification of milk	“ACID WHEY”	21 CFR § 184.1979
Whey [with a] ... lactose content of the finished dry product shall not exceed 60%*	“REDUCED LACTOSE WHEY”	21 CFR § 184.1979a
Whey [of which the] ... dry product shall not contain more than 7% ash*	“REDUCED MINERALS WHEY”	21 CFR § 184.1979b
Whey [of which the] ... finished dry product contains not less than 25% protein*	“WHEY PROTEIN CONCENTRATE”	21 CFR § 184.1979c
Whey [of which the] ... finished dry product contains not less than 90% protein**	“WHEY PROTEIN ISOLATE”	GRAS Notice No. 37
Modified dairy product [with a] ... lactose content of at least 59%**	“DAIRY PRODUCT SOLIDS”	GRAS Notice No. 37
Standardized product ... contains at least 98% lactose*	“LACTOSE”	21 CFR § 168.122
Whey mineral concentrate typically contains 79% total minerals (including 24% calcium ...) 9% lactose and 5% protein**	“WHEY MINERAL CONCENTRATE”	GRAS Notice No. 52
Milk-clotting enzymes	“ENZYMES”	21 CFR § 133.128
Ultrafiltered milk	“ULTRAFILTERED MILK” or “ULTRAFILTERED SKIM MILK”	Not defined
Milk protein concentrate	“MILK PROTEIN CONCENTRATE”	Not defined

* See CFR for complete specifications at <http://www.gpoaccess.gov/cfr/index.html>

** See GRAS Notice for complete specifications at <http://www.cfsan.gov/~rdb/opa-gras.html>

International Dairy Ingredient References

INGREDIENT	INGREDIENT STATEMENT	REFERENCE(S)***
Minimum 42% milkfat Maximum 5% water Minimum 34% milk protein in MSNF	“CREAM POWDER”	Codex Stan 207-1999
Between 26% and 42% milkfat Maximum 5% water Minimum 34% milk protein in MSNF	“WHOLE MILK POWDER” or “FULL CREAM MILK POWDER”	Codex Stan 207-1999
Between 14% and 16% milkfat Maximum 5% water Minimum 34% milk protein in MSNF	“SEMI-SKIMMED MILK POWDER”	Codex Stan 207-1999
Between 1.5% and 26% milkfat Maximum 5% water Minimum 34% milk protein in MSNF	“PARTLY SKIMMED MILK POWDER”	Codex Stan 207-1999
Maximum 1.5% milkfat Maximum 5% water Minimum 34% milk protein in MSNF	“SKIMMED MILK POWDER” or “LOW FAT MILK POWDER”	Codex Stan 207-1999
Minimum 10% milk protein Minimum pH (in 10% solution) 5.1*** Maximum 5% water Maximum 9.5% ash	“WHEY POWDER”	Codex Stan A-15-1995, Rev 1-2003
Minimum 11% milk protein pH (in 10% solution) >6*** Minimum 65% lactose Maximum 8.5% ash	“SWEET WHEY POWDER”	Codex Stan A-15-1995, Rev 1-2003
Minimum 7% milk protein Maximum pH (in 10% solution) 5.1*** Maximum 4.5% water Maximum 15.0% ash	“ACID WHEY POWDER”	Codex Stan A-15-1995, Rev 1-2003
Minimum 90% milk protein Minimum 95% casein in milk protein Maximum 12% moisture Maximum 2.0% milkfat Maximum 2.5% ash (including P ₂ O ₅) Maximum 1.0% lactose	“ACID CASEIN”	Codex Stan A-18-1995, Rev 1-2001
Minimum 84% milk protein Minimum 95% casein in milk protein Maximum 12% moisture Maximum 2% milkfat Minimum 7.5% ash (including P ₂ O ₅) Maximum 1% lactose	“RENNET CASEIN”	Codex Stan A-18-1995, Rev 1-2001
Minimum 88% milk protein Minimum 95% casein in milk protein Maximum 8% moisture Maximum 2% milkfat Maximum 1% lactose Maximum pH 8.0	“CASEINATES”	Codex Stan A-18-1995, Rev 1-2001

*** See Codex for complete specifications at http://www.codexalimentarius.net/web/standard_list.do?lang=en%20%20%2020207
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