## MANUFACTURING MILK LAW OF 2001 (EXCERPT) Act 267 of 2001

Article 7

## 288.630 Prohibited acts; standards; compliance.

Sec. 70.

(1) A person shall not directly, through an agent, or on behalf of another person sell or offer for sale, furnish, or possess or control with intent to sell or offer for sale, or furnish an unsanitary, adulterated, or misbranded milk or dairy product to a person or a processor.

(2) Dairy products made or sold in Michigan shall comply with the requirements of this act and the standards as follows:

Chemical, Physical, Bacteriological, and

Temperature Standards

MANUFACTURING GRADE RAW MILK FOR PASTEURIZATION (NOT FOR FROZEN DESSERTS) INCLUDING ULTRAFILTRATION OR REVERSE OSMOSIS RAW MILK Bulk milk cooled to 45°F (7°C) or less within 2 hours after milking and maintained thereat. Provided that the blend temperature after the first and subsequent milkings

Temperature does not exceed 50°F (10°C). Can milk not to exceed 60°F (16°C) if used for cheese making; if delivered to the plant within 2 hours of milking, no temperature limit.

Not to exceed 500,000 per ml (milk for cheese not to **Bacterial** exceed 750,000 per ml). Not to exceed 1,000,000 per ml limits as commingled milk prior to pasteurization.

Somatic cell Not to exceed 1,000,000 per ml. count

No positive results on drug residue detection methods Drug which have been found to be acceptable for use with raw residues milk

Not to exceed a USDA no. 3 standard following Sediment procedures from standard methods for the examination of

milk and milk products.

Freezing -0.530°H maximum. point

Bulk milk cooled to 45°F (7°C) or less within 2 hours after milking and maintained thereat. Provided, that the RAW MILK FOR FROZEN DESSERTS Temperature

blend temperature after the first and subsequent milkings

does not exceed 50°F (10°C).

**Bacterial** Not to exceed 100,000 per ml for individual supplies, not

limits to exceed 300,000 per ml commingled.

Somatic cell Not to exceed 750,000 per ml. counts

No positive results on drug residue detection methods Drug which have been found to be acceptable for use with raw residues

Not to exceed a USDA no. 3 standard following

Sediment procedures from standard methods for the examination of

milk and milk products.

Freezing -0.530°H maximum. point

Cooled to 45°F (7°C) [50°F (10°C) if 45% or more solids]

or less, or heated to 145° (63°C) or greater and Temperature

maintained thereat unless the product is being dried within

4 hours after condensing.

**Bacterial** Not to exceed 30,000 per gram. limits

**CONCENTRATE** 

Rendered Wednesday, August 27, 2025

PASTEURIZED CONDENSED MILK

AND CONDENSED SKIM MILK

Coliform count

Not to exceed 10 per gram. Provided, that in the case of bulk milk transport tank shipments shall not exceed 100

per ml.

Drug residues No positive results on drug residue detection methods which have been found to be acceptable for use with

condensed milk and condensed skim milk.

DRY WHOLE MILK, EXTRA GRADE

No more than:

Butterfat No

Not less than 26% or more than 40%.

Moisture 4.50%.

Solubility index

1.0 ml spray process; 15.0 roller process.

Bacterial limit

Not to exceed 50,000 per gram.

Coliform count

Not to exceed 10 per gram.

Scorched

particles disc 15.0/ gram spray process; 22.5 roller process.

В

Drug residues No positive results on drug residue detection methods which have been found to be acceptable for use with dry

whole milk.

DMCC count

Less than 100,000,000 per gram.

DRY WHOLE MILK, STANDARD GRADE

No more

than:

Butterfat Not less than 26% or more than 40%.

Moisture 5.00%. Titratable acidity 0.15%.

Solubility index

1.5 ml spray process; 15.0 ml roller process.

Bacterial

limit

Not to exceed 100,000 per gram.

Coliform count

Not to exceed 10 per gram.

Scorched

particles disc 22.5 per gram spray process; 32.5 per gram roller process.

В

Drug residues

No positive results on drug residue detection methods which have been found to be acceptable for use with dry,

whole milk.

DMCC count

Less than 100,000,000 per gram.

NONFAT DRY MILK, EXTRA GRADE

No more than:

 $\begin{array}{ll} \text{Butterfat} & 1.25\% \\ \text{Moisture} & 4.00\% \\ \text{Titratable} & 0.15\% \\ \end{array}$ 

Solubility index

 $1.2\ ml\ (2.0\ ml\ high-heat,\ max)$  spray process;  $15.0\ ml$ 

roller process.

Bacterial No

Not to exceed 10,000 per gram spray or 50,000 per gram

limit

roller process.

Coliform Not to exceed 10 per gram. count

Scorched

particles disc 15.0/ gram spray; 22.5/ gram roller process.

No positive results on drug residue detection methods Drug which have been found to be acceptable for use with residues

nonfat dry milk.

**DMCC** count

Less than 100,000,000 per gram.

NONFAT DRY MILK, STANDARD **GRADE** 

No more than:

Butterfat 1.50% Moisture 5.00% Titratable 0.17% acidity

Solubility index

2.5 ml spray process; 15.0 ml roller process.

**Bacterial** estimate

75,000/ gram spray; 100,000/ gram roller process.

Coliform count

10 per gram.

Scorched

particles disc 22.5/ gram spray; 32.5/ gram roller process.

В

No positive results on drug residue detection methods Drug which have been found to be acceptable for use with residues

nonfat dry milk.

**DMCC** 

Less than 100,000,000 per gram. count

INSTANT NONFAT DRY MILK. **EXTRA GRADE** 

No more than:

Butterfat 1.25%. 4.50%. Moisture Titratable 0.15%. acidity Solubility

index

1.0 ml.

**Bacterial** limit

Not to exceed 10,000 per gram.

Coliform count

Not to exceed 10 per gram.

Scorched

particles disc 15.0/ gram.

В

Drug residues No positive results on drug residue detection methods which have been found to be acceptable for use with

nonfat dry milk.

Dispersibility 85.0%

**DMCC** 

Less than 40,000,000 per gram.

count

Maintained at a temperature of 45°F (7°C) or less, or

Temperature 135°F (57°C) or greater, except for acid-type whey with a titratable acidity 0.40% or above, or a pH of 4.6 or below.

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WHEY FOR CONDENSING

	Drug residues	No positive results on drug residue detection methods which have been found to be acceptable for use with whey.
PASTEURIZED CONDENSED WHEY AND WHEY PRODUCTS	Temperature	Cooled to 50°F (10°C) or less during crystallization, within 72 hours of condensing.
	Coliform count	Not to exceed 10 per gram.
	Drug residues	No positive results on drug residue detection methods which have been found to be acceptable for use with condensed whey.
DRY WHEY, EXTRA GRADE	Bacterial limit	Not to exceed 30,000 per gram.
	Coliform count	Not to exceed 10 per gram.
	Milkfat content	Not to exceed 1.5%.
	Moisture content	Not to exceed 5.0%.
	Scorched particle content	Not to exceed 15.0%.
DRY WHEY, DRY WHEY PRODUCTS	Bacterial limit	Not to exceed 50,000 per gram.
	Coliform count	Not to exceed 10 per gram.
	Butterfat	Not more than 1.50%.
	Moisture	Not more than 5%.
	Drug residues	No positive results on drug residue detection methods which have been found to be acceptable for use with dry whey and dry whey products.
DRY BUTTERMILK AND DRY BUTTERMILK PRODUCTS, EXTRA GRADE	Butterfat	4.5% min.
	Moisture	4.0% max.
	Titratable acidity	0.10 - 0.18%.
	Solubility index	1.25 ml spray process; 15.0 roller process.
	Bacterial limit	Not to exceed 20,000 per gram.
	Coliform count	Not to exceed 10 per gram.
	Scorched particles disc B	15.0 mg spray process; 22.5 mg roller process.
	Drug residues	No positive results on drug residue detection methods which have been found to be acceptable for use with dry buttermilk and dry buttermilk products.
DRY BUTTERMILK AND DRY BUTTERMILK PRODUCTS, STANDARD GRADE	Butterfat	4.5% min.
	Moisture	5.0% max.
	Titratable acidity	0.10 - 0.20%.

Solubility

2.0 ml spray process; 15.0 roller process. Index

**Bacterial** 

limit

Not to exceed 75,000 per gram.

Coliform

count

Not to exceed 10 per gram.

Scorched

particles disc 22.5 mg spray process; 32.5 mg roller process.

В

Drug residues No positive results on drug residue detection methods which have been found to be acceptable for use with dry

buttermilk and dry buttermilk products.

BUTTER, WHIPPED BUTTER

Percent butterfat

Not less than 80%.

Temperature

Maintained at a temperature of 45°F (7°C) or less, when in

storage.

Proteolytic

count

Not more than 50 per gram.

Yeast and mold

Not more than 10 per gram.

Coliform count

Not more than 10 per gram.

Keeping

quality

Satisfactory after 7 days at 70°F (21°C).

PASTEURIZED MILK, CREAM, FLUID DAIRY PRODUCTS FOR FROZEN DESSERTS

**Bacterial** limit

Not to exceed 20,000 per ml.

Coliform count

Not to exceed 10 per gram. Provided, that in the case of bulk milk transport tank shipments shall not exceed 100

per ml.

Storage temp

No higher than 45°F (7°C).

**Bacterial** 

FROZEN DESSERT MIX

limit 30,000 per ml.

Coliform count

Not to exceed 10 per gram. Provided, that in the case of bulk milk transport tank shipments shall not exceed 100

Storage

No higher than 45°F (7°C). (Sterile or aseptic mix has no

storage temperature requirement.)

FROZEN DESSERTS

**Bacterial** limit.

temp

30,000 per ml.

Coliform count

Not to exceed 10 per ml (20 per gram for chocolate, fruit,

nuts or other bulky flavored frozen desserts).

Storage temp

No higher than 32°F (0°C).

Butterfat

Per standards listed in 21 C.F.R. 135.

STERILIZED OR ASEPTIC **PRODUCTS** 

**Bacterial** limit

Refer to 21 CFR 113.3(e)(1).

Temperature None.

Yeast and mold

No viable yeast or mold spores.

Drug residues No positive results on drug residue detection methods which have been found to be acceptable for use with aseptically processed milk and milk products.

PRIVATE WATER SUPPLIES FOR DAIRY FARMS AND DAIRY PLANTS; RECIRCULATED COOLING WATER (SWEET WATER); GLYCOL FOR COOLING

Coliform Less than 1.1 per 100 ml as MPN or equivalent method count

less than 1 per 100 ml.

CONDENSATE RECOVERY WATER Total plate (COW WATER)

count

Not to exceed 500 per ml.

Chemical

oxygen

Not to exceed 12 mg per L.

demand

**Turbidity** Not to exceed 5 units.

History: 2001, Act 267, Eff. Feb. 8, 2002 ;-- Am. 2008, Act 147, Eff. June 27, 2008

Compiler's Notes: In the section of the table entitled "PASTEURIZED CONDENSED MILK AND CONDENSED SKIM MILK", the first instance of "145°" evidently should read "145°F".

## 288.631 Testing frequency for dairy products; testing dairy farm water supplies.

Sec. 71.

- (1) All dairy products shall be tested at a minimum frequency of 4 out of every 6 months, or as determined by the
- (2) Except when the water supply is required to be tested annually as provided in section 130(9)(h), well water samples for dairy farms shall be tested a minimum of once every 3 years and found to be of safe and satisfactory quality.
  - (3) Water supplies for dairy plants shall be tested a minimum of once every 6 months.
  - (4) Recirculated water or recirculated cooling medium shall be tested a minimum of once every 6 months.
- (5) Condensate recovery water shall be used only in applications that conform to requirements and procedures accepted by the United States food and drug administration or the director.

History: 2001, Act 267, Eff. Feb. 8, 2002