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 UI TRAFIL TRATION

INCLUDING ULTRAFILTRATION OR REVERSE OSMOSIS RAW MILK CONCENTRATE Bulk milk cooled to $45 \hat{A}^{\circ}F$ ($7 \hat{A}^{\circ}C$) 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 $50 \hat{A}^{\circ} F$ ($10 \hat{A}^{\circ} C$). Can milk not to exceed $60 \hat{A}^{\circ} F$ ($16 \hat{A}^{\circ} C$) if used for cheese making; if delivered to the plant within 2 hours of milking, no temperature limit.

Bacterial limits

Not to exceed 500,000 per ml (milk for cheese not to exceed 750,000 per ml). Not to exceed 1,000,000 per ml as

commingled milk prior to pasteurization.

Somatic cell count

Not to exceed 1,000,000 per ml.

Drug residues

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

milk.

Not to exceed a USDA no. 3 standard following

Sediment procedures from standard methods for the examination of

milk and milk products.

Freezing point

-0.530°H maximum.

RAW MILK FOR FROZEN DESSERTS

Temperature after milki

Bulk milk cooled to 45ŰF (7ŰC) or less within 2 hours after milking and maintained thereat. Provided, that the blend temperature after the first and subsequent milkings

does not exceed 50°F (10°C).

Bacterial limits

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

to exceed 300,000 per ml commingled.

Somatic cell counts

Not to exceed 750,000 per ml.

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

milk.

Not to exceed a USDA no. 3 standard following

Sediment procedures from standard methods for the examination of

milk and milk products.

Freezing point

-0.530°H maximum.

PASTEURIZED CONDENSED MILK AND CONDENSED SKIM MILK

Temperature

Cooled to $45 \hat{A}^{\circ} F$ ($7 \hat{A}^{\circ} C$) [$50 \hat{A}^{\circ} F$ ($10 \hat{A}^{\circ} C$) if 45 % or more solids] or less, or heated to $145 \hat{A}^{\circ}$ ($63 \hat{A}^{\circ} C$) or greater and maintained thereat unless the product is being dried within

4 hours after condensing.

Bacterial limits

Not to exceed 30,000 per gram.

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 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

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

residues whole milk.

DMCC count

Less than 100,000,000 per gram.

NONFAT DRY MILK, EXTRA GRADE

No more than:

Butterfat 1.25% Moisture 4.00% Titratable acidity 0.15%

Solubility 1.2 ml (2.0 ml high-heat, max) spray process; 15.0 ml roller

index process.

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

limit roller process.

Coliform count Not to exceed 10 per gram.

Scorched

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

В

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

2.5 ml spray process; 15.0 ml roller process.

index 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

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

dry milk.

DMCC

count Less than 100,000,000 per gram.

INSTANT NONFAT DRY MILK, EXTRA GRADE

No more

than:

Butterfat 1.25%. Moisture 4.50%. Titratable

acidity

0.15%.

Solubility

1.0 ml.

index Bacterial

1.0 1111.

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

count Less than 40,000,000 per gram.

WHEY FOR CONDENSING

Temperature

Maintained at a temperature of $45 \text{Å}^{\circ}\text{F}$ ($7 \text{Å}^{\circ}\text{C}$) or less, or $135 \text{Å}^{\circ}\text{F}$ ($57 \text{Å}^{\circ}\text{C}$) or greater, except for acid-type whey with a titratable acidity 0.40% or above, or a pH of 4.6 or

below.

		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 Index	2.0 ml spray process; 15.0 roller process.
_	Pandarod Saturday August 22, 2025		Michigan Compiled Laws Complete Through PA 0 of 2021

Bacterial Not to exceed 75,000 per gram. limit

Coliform

Not to exceed 10 per gram.

Scorched

count

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

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

buttermilk and dry buttermilk products.

Percent BUTTER, WHIPPED BUTTER Not less than 80%. butterfat

> Maintained at a temperature of 45ŰF (7°C) or less, Temperature

when in storage.

Proteolytic Not more than 50 per gram. count

Yeast and Not more than 10 per gram. mold

Coliform Not more than 10 per gram. count

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

PASTEURIZED MILK, CREAM, FLUID DAIRY PRODUCTS FOR FROZEN DESSERTS

Bacterial Not to exceed 20,000 per ml. limit

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

Storage No higher than 45°F (7°C). temp

Bacterial FROZEN DESSERT MIX 30,000 per ml. limit

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

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

no storage temperature requirement.) temp

Bacterial FROZEN DESSERTS 30,000 per ml. limit.

> Coliform Not to exceed 10 per ml (20 per gram for chocolate, fruit, nuts or other bulky flavored frozen desserts). count

Storage No higher than 32°F (0°C).

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

STERILIZED OR ASEPTIC **Bacterial** Refer to 21 CFR 113.3(e)(1). **PRODUCTS**

limit

Temperature None.

Yeast and No viable yeast or mold spores. mold

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

PRIVATE WATER SUPPLIES FOR

DAIRY FARMS AND DAIRY

PLANTS; RECIRCULATED

COOLING WATER (SWEET

WATER); GLYCOL FOR COOLING

CONDENSATE RECOVERY WATER Total plate

(COW WATER)

1 .

less than 1 per 100 ml.

count

Chemical oxygen

Coliform

count

Not to exceed 12 mg per L.

Not to exceed 500 per ml.

Less than 1.1 per 100 ml as MPN or equivalent method

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 " $145\hat{A}^{\circ}$ " evidently should read " $145\hat{A}^{\circ}$ 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 director.
- (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