

# FAT, PROTEIN, CASEIN, LACTOSE, UREA

# COW MILK

- □ **Sample description:** series of 10 samples in the amount of 80 ml each of raw cow milk in a screw colored cap plastic vials.
- □ **Identification:** samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- Scope: to be used as reference material to control or calibrate Mid-Infrared instruments
- □ Instruction for storage and use: store at 4 ± 2°C. Before use warm the sample at 38 ± 2°C. Best if used shortly after opening.
- Preservative: Bronopol 0,02 % (wt/vol) and Sodium Azide 0,02 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- □ Shelf life: 10 days since its production.



## FAT, PROTEIN, LACTOSE, UREA

## **BUFFALO MILK**

#### FT 584X

- □ **Sample description:** series of 9 samples in the amount of 80 ml each of raw buffalo milk sample in a screw colored cap plastic vials.
- □ Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- Scope: to be used as reference material to control or calibrate Mid-Infrared instruments
- □ Instruction for storage and use: store at 4 ± 2°C. Before use warm the sample at 38 ± 2°C. Best if used shortly after opening.
- Preservative: Bronopol 0,02 % (wt/vol) and Sodium Azide 0,02 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- □ Shelf life: 10 days since its production.



# FAT, PROTEIN, CASEIN, LACTOSE, UREA

## SHEEP MILK

## FT 585X

- □ **Sample description:** series of 9 samples in the amount of 80 ml each of raw sheep milk sample in a screw colored cap plastic vials.
- □ Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- Scope: to be used as reference material to control or calibrate Mid-Infrared instruments
- □ Instruction for storage and use: store at 4 ± 2°C. Before use warm the sample at 38 ± 2°C. Best if used shortly after opening.
- Preservative: Bronopol 0,02 % (wt/vol) and Sodium Azide 0,02 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- □ Shelf life: 10 days since its production.



## FAT, PROTEIN, LACTOSE, UREA

## GOAT MILK

## FT 586X

- □ **Sample description:** series of 9 samples in the amount of 80 ml each of raw goat milk sample in a screw colored cap plastic vials.
- □ Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- Scope: to be used as reference material to control or calibrate Mid-Infrared instruments
- □ Instruction for storage and use: store at 4 ± 2°C. Before use warm the sample at 38 ± 2°C. Best if used shortly after opening.
- Preservative: Bronopol 0,02 % (wt/vol) and Sodium Azide 0,02 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- □ Shelf life: 10 days since its production.



# CERTIFICATE REFERENCE MATERIALS INCLUDING TOTAL SOLIDS

- Sample description: reference material certificate comprehensive of total solids value. It is done for materials FT 001, FT 584X, FT 585X, FT 586X.
- □ Istructions: the RSM it is the difference between total solids and fat value.



### SOMATIC CELLS

- Sample description: series of 20 cow milk samples, including 5 different cells level (80.000 - 1.000.000 cells/ml), 4 vials for each level. Samples are in a 24 ml screw black cap glass vials.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used as reference material to control or calibrate fluorooptic-electronic somatic cell counters.
- □ Instruction for storage and use: store at 4 ± 2°C. Before use warm the sample at 38 ± 2°C. Best if used shortly after opening.
- **Preservative:** Bronopol 0,04 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 4 months since its production.



## SOMATIC CELLS

#### **FROZEN MILK**

- Sample description: series of 5 frozen raw cow milk samples, ranging from 80.000 to 1.000.000 cells/ml. Samples are in a 50 ml screw colored cap plastic vials.
- □ Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used as reference material to control or calibrate fluorooptic-electronic somatic cell counters.
- Instruction for storage and use: store at -18 ± 2°C. Before use warm at 38 ± 2°C mix gently after 30 min, then leave for other 10 min, before use. Best if used shortly after opening.
- **Preservative:** Bronopol 0,04 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 6 months since its production.



## SOMATIC CELLS

## LYOPHILIZED MILK

- Sample description: series of 5 lyophilized cow milk samples, ranging from 100.000 to 1.000.000 cells/ml. Samples are in amber glass vials with rubber cup and metal seal.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used as reference material to control or calibrate fluorooptic-electronic somatic cell counters.
- □ Instruction for storage and use: store at 4 ± 2°C. Before use reconstitute the sample with sterile water. Best if used shortly after opening.
- **Preservative:** Bronopol 0,04 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 2 years since its production.



## SOMATIC CELLS

## PILOT SAMPLE

# FT 041A (low) FT 041B (high)

- Sample description: 24 ml cow milk sample, heat treated, at a cells count of approximately 350.000 cells/ml (FT041A) or approximately 1.300.000 cell/ml (FT041B). The sample is in a screw black cap glass vials.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used as reference material to control or calibrate fluorooptic-electronic somatic cell counters.
- □ Instruction for storage and use: store at 4 ± 2°C. Before use warm the sample at 38 ± 2°C. Best if used shortly after opening.
- **Preservative:** Bronopol 0,04 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 4 months since its production.



## SOMATIC CELLS

## LYOPHILIZED MILK SAMPLE PILOT

- Sample description: 5 lyophilized cow milk samples at a cell count of approximately 350.000 cells/ml. Samples are in amber glass vials with rubber cup and metal seal.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used as reference material to control or calibrate fluorooptic-electronic somatic cell counters.
- Instruction for storage and use: store at 4 ± 2°C. Before use reconstitute the sample with sterile water. Best if used shortly after opening.
- **Preservative:** Bronopol 0,04 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 2 years since its production.



## SOMATIC CELLS

## FROZEN MILK PILOT SAMPLE

- Sample description: frozen raw cow milk samples, at a cell count of approximately 1.300.000 cells/ml. Samples are in a 50 ml screw colored cap plastic vials.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used as reference material to control or calibrate fluorooptic-electronic somatic cell counters.
- Instruction for storage and use: store at 18 ± 2°C. Before use warm at 38 ± 2°C mix gently after 30 min, then leave for other 10 min, before use. Best if used shortly after opening.
- **Preservative:** Bronopol 0,04 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 6 months since its production.



## AFLATOXIN B<sub>1</sub>

# **CORN FLOUR**

# FT 409 (series of 4 samples) FT 410 (single sample)

- □ Sample description: 25 g ± 0,1 g corn flour' samples under vacuum packed at an aflatoxin content ranging from 1 to 50  $\mu$ g/kg.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used as reference material for Aflatoxin B<sub>1</sub> determination in corn flour by ELISA and HPLC.
- Instruction for storage and use: store at 4 ± 2°C lightproof. Best if used shortly after opening.
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 1 year since its production.



## AFLATOXIN M<sub>1</sub>

# LYOPHILIZED COW MILK

# FT 395 (series of 4 samples) FT 391E (single sample)

- Sample description: 10 ml lyophilized skim milk sample in an amber glass vials with rubber cup and metal seal at an aflatoxin content ranging from 5 to 80 ng/kg.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- ❑ Scope: to be used as reference material for Aflatoxin M<sub>1</sub> determination in milk by ELISA.
- Instruction for storage and use: store at < 0°C until its use. Before to use, reconstitute the sample by using sterile water. Best if used shortly after opening.
- **Preservative:** Bronopol 0,04 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 1 year since its production.



## AFLATOXIN M<sub>1</sub>

# **FROZEN COW MILK**

# FT 391H

- Sample description: 80 ml frozen skim milk sample in a screw colored cap plastic vials.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- ❑ Scope: to be used as reference material for Aflatoxin M<sub>1</sub> determination in milk by HPLC.
- Instruction for storage and use: store at -18 ± 2°C. Before use warm at 38 ± 2°C mix gently after 30 min, then leave for other 10 min, before use. Best if used shortly after opening.
- □ **Preservative:** Bronopol 0,04 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 6 months since its production.



# CRYOSCOPY

## WATER SOLUTION

- Sample description: series of 3 water solution sample at different freezing point (-0.408°C, -0,512°C,-0,600°C). Samples are in a 9 ml amber glass vials with rubber cup and metal seal.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- Scope: to be used as reference material for thermistor or plateau cryoscope.
- Instruction for storage and use: store at 4 ± 2°C. Best if used shortly after opening.
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 1 year since its production.



#### CRYOSCOPY

**PILOT SAMPLE** 

FT 480AX (-0.510°C) FT 480BX (-0.520°C) FT 480CX (-0.540°C)

- Sample description: 24 ml cow milk sample, heat treated, at a freezing point of approximately -0,510°C, -0.520°C, -0.540°C. The sample is in a 24 ml screw black cap glass vials.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used as reference material for thermistor or plateau cryoscope.
- Instruction for storage and use: store at 4 ± 2°C. Best if used shortly after opening.
- **Preservative:** Bronopol 0,04 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 6 months since its production.



## CRYOSCOPY

#### COW MILK

- Sample description: series of 6 samples of skim cow milk heat treated, at a freezing point ranging from -0.400°C to -0.600°C. Samples are in a 24 ml screw black cap glass vials.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used as reference material for thermistor or plateau cryoscope and Mid-Infrared instruments.
- Instruction for storage and use: tore at 4 ± 2°C. Best if used shortly after opening.
- □ **Preservative:** Bronopol 0,04 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 6 months since its production.



## ANTIBACTERIAL SUBSTANCES IN MILK

## **NEGATIVE CONTROL**

#### FT 308A

- □ **Sample description:** 0.5 g lyophilized skim milk sample in an amber glass vials with rubber cup and metal seal.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- Scope: to be used as negative control in test for detection of antibacterial substances in milk.
- □ Instruction for storage and use: store at 4 ± 2°C. Before use, reconstitute with 4,5 ± 0,1g of sterile water. Best if used shortly after opening.
- □ **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 2 years since its production.



### ANTIBACTERIAL SUBSTANCES IN MILK

## POSITIVE CONTROL

# FT 308B (PENICILLIN G MRL) FT 308D (SULFAMIDIC MRL)

- Sample description: 0.5 g lyophilized skim milk sample in an amber glass vials with rubber cup and metal seal.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used as positive control in test for the detection of antibacterial substances in milk.
- □ Instruction for storage and use: store at 4 ± 2°C. Before use, reconstitute with 4,5 ± 0,1g of sterile water. Best if used shortly after opening.
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life**. 2 years since its production.



### TOTAL BACTERIA COUNT

- Sample description: series of 4 lyophilized skim milk with a bacteria count ranging from 50.000 a 1.000.000 cfu/ml. Samples (2 g) are in a screw cap sterile plastic vials.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used as reference material to control and calibrate fluorooptic-electronic counters.
- □ Instruction for storage and use: store at 4 ± 2°C. Reconstitute the sample by adding 25 g of sterile water, wait 30 min and then proceed with the analysis. Best if used shortly after opening.
- □ **Preservative:** Sodium Azide 0,02 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life**. 1 year since its production.



### TOTAL BACTERIA COUNT

#### PILOT SAMPLE

- □ Sample description: 2 g lyophilized skim milk with a bacteria count ranging from 50.000 a 150.000 cfu/ml. The sample is in a screw cap sterile plastic vials.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used as reference material to control and calibrate fluorooptic-electronic counters.
- □ Instruction for storage and use: store at 4 ± 2°C. Reconstitute the sample by adding 25 g of sterile water, wait 30 min and then proceed with the analysis. Best if used shortly after opening.
- □ **Preservative:** Sodium Azide 0,02 % (p/v).
- **Safety:** this product is supplied for laboratory use only.
- □ Shelf life. 1 year since its production.



#### **STERILE WATER**

- □ **Sample description:** 25 ml sterile water acqua to be used for recostituing samples for detecting total bacteria samples.
- □ **Identification:** samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used for reconstituting samples for detecting total bacteria samples.
- □ Instruction for storage and use: store at  $4 \pm 2^{\circ}$ C.
- □ **Safety:** this product is supplied for laboratory use only.
- **Shelf life**. 1 year since its production.



#### UREA

## **STANDARD 1**

# FT 110A

- Sample description: 3 ml skim milk sample, heat treated, at a urea content of about 30 mg/100 ml. The sample is in a screw black cap glass vials.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ **Scope:** to be used as reference material to calibrate differential pH, conductometric and colorimetric instruments.
- □ Instruction for storage and use: store at 4 ± 2°C. Best if used shortly after opening.
- □ **Preservative:** Bronopol 0,04 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life**. 6 months since its production.



#### UREA

## STANDARD 0

# FT 110B

- Sample description: 3 ml skim milk sample, heat and urease treated, at an urea content less than 3 mg/100 ml. The sample is in a screw black cap glass vials
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.
- □ Scope: to be used as reference material to calibrate differential pH, conductometric and colorimetric instruments.
- □ Instruction for storage and use: store at 4 ± 2°C. Best if used shortly after opening.
- □ **Preservative:** Bronopol 0,04 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 6 months since its production.



#### UREA

## FT 223X

- Sample description: series of 10 heat treated milk sample, at an urea content ranging from 10 to 80 mg/100ml. The sample is in a 24 ml screw black cap glass vials.
- Identification: samples are identified by a label with the AIA logo, the name of the product, the date of production, an alphanumeric identification, the expiration date and product code.

**Scope:** to be used as reference material to control or calibrate Mid-Infrared instruments.

- Instruction for storage and use: store at 4 ± 2°C. Best if used shortly after opening.
- □ **Preservative:** Bronopol 0,04 % (wt/vol).
- **Safety:** this product is supplied for laboratory use only.
- **Shelf life:** 6 months since its production.



#### **ROUTINE METHODS – COW MILK – FT 012**

Series of 10 raw cow milk samples (80ml), 3 water solutions and 4 lyophilized milk samples to determine fat, Protein, Casein, Lactose, Somatic Cells, antibacterial substances, Cryoscopy, pH, Urea, dry matter, Titrable Acidity, BHB.

#### **ROUTINE METHODS – SHEEP MILK – FT 307**

Series of 6 raw sheep milk samples (80ml) to determine Fat, Protein, Lactose, Cryoscopy

#### **ROUTINE METHODS – BUFFALO MILK - FT 476**

Series of 6 raw buffalo milk samples (80ml) to determine Fat, Protein, Lactose, Cryoscopy.

#### **ROUTINE METHODS – GOAT MILK - FT 563**

Series of 6 raw goat milk samples (80ml) to determine Fat, Protein, Lactose, Cryoscopy.

#### **REFERENCE METHODS - FT 019**

Series of 6 raw cow milk samples (80 ml) to determine Fat, Protein and Casein by reference methods: Rose Gottlieb e Kjeldahl.

#### SOMATIC CELLS - FT 217

Series of 9 cow milk heat treated samples (24 ml) to determine somatic cells by using fluoro-opto-electronic counters.



#### SOMATIC CELLS - FT 217C

Series of 7 frozen cow milk samples (50 ml) to determine somatic cells by using fluoro-opto-electronic counters.

#### **SOMATIC CELLS - FT 970**

Series of 5 lyophilized cow milk samples to determine somatic cells by using fluoro-opto-electronic counters.

#### CHEESE - FT 469

Two cheese samples (100 g) to determine Fat, Protein, Moisture, Ash, pH, and NaCl.

#### **CRYOSCOPY - FT 216**

Series of 6 cow milk samples (24 ml) heath treated to determine the freezing point by thermistor instruments and Mid-Infrared Instruments .

#### **TOTAL BACTERIA COUNT - FT 215**

Series of 4 lyophilized cow milk samples to determine the total bacteria count by using fluoro-opto-electronic counters.

#### MICRORGANISMS @ 30°C – FT 309

Series of 5 raw cow milk samples to determine aerobic bacteria according to the ISO 4833:2003.



#### **UREA - FT 218A**

Series of 11 cow milk (3 ml) heat treated for the determination of Urea by differential pH, colorimetric and conductometric methods.

#### **UREA - FT 218B**

Series of 10 cow milk (24 ml) heat treated samples for the determination of Urea by Mid-Infrared Instruments.

#### AFLATOXIN M<sub>1</sub> - FT 333E

Series of 4 cow milk samples to determine Aflatoxin M<sub>1</sub> by ELISA.

#### AFLATOXIN M<sub>1</sub> - FT 333H

Series of 4 cow milk samples to determine Aflatoxin M<sub>1</sub> by HPLC.

#### AFLATOXIN M<sub>1</sub>- FT 334

Series of 4 cow milk samples to determine Aflatoxin  $M_1$  by ELISA and HPLC.

#### AFLATOXIN B<sub>1</sub> - FT 341

Series of 4 corn flour samples to determine Aflatoxin  $B_1$  by ELISA or HPLC.



#### AFLATOXIN B<sub>1</sub> - FT 342

Series of two corn flour samples to determine Aflatoxin  $B_1$  by ELISA and HPLC.

#### **ZEARALENON - FT 473**

Series of two corn flour samples to determine Zearalenon by ELISA or HPLC.

#### **ZEARALENON - FT 475**

Series of two corn flour samples to determine Zearalenon by ELISA and HPLC

#### **OCHRATOXIN A - FT 425**

Series of two granted grain samples to determine Ochratoxin A by ELISA or HPLC.

#### **OCHRATOXIN A - FT 427**

Series of two granted grain samples to determine Ochratoxin A by ELISA and HPLC.

#### **DEOXYNIVALENOL (DON) – FT 470**

Series of corn flour samples to determine DON by ELISA or HPLC.

#### **DEOXYNIVALENOL (DON)- FT 472**

Series of two corn flour samples to determine DON by ELISA and HPLC.

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