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ICS 67.100.10
CCS X16

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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3627-2013

Determination of melamine in liquefied raw milk for export. Polarography method

出口液态原料乳中三聚氰胺的测定 极谱法

(English Translation)

Issued on: August 30, 2013 **Implemented on: March 1, 2014**

Issued by: General Administration of Customs

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Foreword

Accordance with the standards GB/T 1.1-2009, GB/T 20001.4-2001 and rules of SN/T 0001-1995 given draft.

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Hubei Exit Inspection and Quarantine.

1 Scope

This standard specifies the polarographic determination of the liquid melamine in raw milk.

This standard applies to the determination of the liquid melamine in raw milk.

2 Method summary

The introduction of liquid membrane separation technology for raw milk and dairy products has fluidity characteristics, the use of a dialysis membrane selection of melamine molecules Extracted from the liquid melamine in dairy products through sexual function. Melamine molecule has three amino groups are electrochemically active, when the electrode Potential when loaded to the scanning anode oxidation in alkaline solution medium can produce a characteristic reduction potential, a characteristic redox potential to set Resistance, the current peak value to generate quantitative characteristic potentials.

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3 Reagents and materials

Unless otherwise specified, the water is distilled water, reagents were of analytical grade.

3.1
sodium hydroxide.

3.2
potassium chloride.

3.3
base solution (4mol/LNaOH-0.4mol/LKCl). Weigh 160.04g of sodium hydroxide (3.1) and 29.82g potassium chloride (3.2), with an appropriate the amount of water to dissolve, and diluted with water to 1L, shake.

3.4
melamine standard (melamine, CAS number. 108-78-1). purity of greater than or equal to 99.9%.

3.5
Melamine standard stock solution (1000μg/mL). Weigh accurately 100mg (accurate to 0.1mg) melamine standard (3.4) in 100mL flask, after dissolved in water, dilute to the mark, mix, at 0 °C ~ 4 °C conditions stored in the dark for a period of one month.

3.6
raw milk or liquid dairy series of standard working solution containing melamine. were added 0mL, 0.20mL, 0.30mL, 0.40mL, 0.50mL melamine standard stock solution (3.5) in five vial with melamine-free raw milk or liquid dairy products Diluted to 100.00g, shake, to give concentrations of 0mg/kg, 2.0mg/kg, 3.0mg/kg, 4.0mg/kg, 5.0mg/kg cyanuric Amine series of standard working solution.

4 Instruments and equipment

4.1
Melamine rapid extraction apparatus include. sample holder (see Appendix A in Figure A.1 and A.2) and temperature control unit. Wherein the sample holder Made of a metal stent, the membrane having a plurality of circular holes disposed osmosis device (4.3), and can be placed in the melamine rapid extractor (4.1) in a water bath Slot. Temperature control unit Temperature requirements. 70 °C ± 2 °C. Or performance are quite.

4.2
membrane dialysis devices. the 3500 molecular weight cellulose acetate dialysis membrane, a dialysis membrane supported by the support frame composed of the outer

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tube and the cap apparatus shown See Appendix A in Figure A.3 and A.4. Or performance are quite.

4.3

Polarograph. with the dropping mercury electrode, a platinum electrode, Ag/AgCl electrode three-electrode system, with a special plastic sample cup, or rather by the performance.

4.4

Analysis of balance. a sense of volume and 0.0001g 0.01g.

4.5

Pipette. 1mL, 5mL.

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