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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3142-2012

Determination of D-mannitol, maltose, xylitol, D-sorbitolin foods for export. LC-MS-MS method

出口食品中D-甘露糖醇、麦芽糖、木糖醇、D-山梨糖醇的检测方法 液相色谱-质谱/质谱法

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

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

This standard was drafted. Jilin People's Republic of China Entry-Exit Inspection and Quarantine Wenzhou People's Republic of China Bureau, Xiamen People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the export of food products D- mannitol, maltose, xylitol, D- sorbitol liquid chromatography - mass spectrometry/mass spectrometry method.

This standard applies to white wine, soda water, biscuits, instant noodles, bean curd in D-mannitol, measuring maltose, xylitol, sorbitol of D-Set and confirmed.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis

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3 Method summary

Ultrasonic liquid sample water extraction volume after centrifugation, solid and semi-solid samples were dissolved in water to volume, and then by solid phase extraction (SPE), sample Eluted after liquid volume for liquid chromatography - mass spectrometry/mass spectrometer and validation, external standard.

4 Reagents and materials

Reagent used in the method, unless otherwise specified, were of analytical grade; water as a water GB/T 6682 regulations.

4.1
Methanol. chromatographically pure.

4.2
formic acid. Chromatographic pure.

4.3
acetonitrile. chromatography.

4.4 0.1% formic acid. 1mL acid dissolved in 1000mL water.

4.5
Eluent. acetonitrile 0.1% formic acid (11, volume ratio). a 500 mL acetonitrile (4.3) and 500mL0.1% aqueous formic acid (4.4) and mixed. Preparation before use.

4.6
Standard substance. D- mannitol (D-mannitol, CAS No. 69-65-8, C6H14O6), maltose (maltose, CAS No. 69-79-4, C12H22O11), xylitol (xylitol, CAS No. 87-99-0, C5H12O5), D-sorbitol (D-sorbitol, CAS Number 50-70-4 C6H14O6) greater than or equal to 97% purity.

4.7
standard stock solution. accurately weighed amount of standard, with acetonitrile formulated into standard stock solution 1.0mg/mL in 0 °C ~ 4 °C Refrigerator.

4.8
standard solution. as required by acetonitrile 0.1% formic acid aqueous solution (4.5) diluted preparation of an appropriate concentration of standard working solution, active Now equipped.

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