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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3545-2013

Determination of various preservaives in foods for export

出口食品中多种防腐剂的测定方法

(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. 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 Liaoning Province Exit Inspection and Quarantine.

1 Scope

This standard specifies the foods propionic acid, sorbic acid, benzoic acid, dehydroacetic acid, p-hydroxy benzoate, methyl paraben, for Ethyl paraben, isobutyl p-hydroxybenzoate, propyl paraben and butyl paraben more preservatives Gas Chromatography Detection and sample preparation methods.

This standard applies to salted pepper, instant noodles, miso, milk, salted mushrooms, orange juice, cakes, soy sauce, wine and salted foods such as bracken more Species Determination of preservatives content.

2 Method summary

Preservative in the sample under acidic conditions (vitriol) with ethyl acetate or acetonitrile (added anhydrous magnesium sulfate and sodium chloride salting) mentioned Take, Pipette part extract was dried over anhydrous magnesium sulfate, determined by gas chromatography (GC), external standard.

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3 Reagents and materials

Unless otherwise specified, the reagents used were HPLC grade.

3.1
acetonitrile.

3.2
ethyl acetate.

3.3
n-hexane.

3.4
Concentrated sulfuric acid. AR.

3.5
Sodium carbonate. AR.

3.6
Sodium chloride. AR.

3.7
anhydrous magnesium. AR; 650 °C burning 4h, stored in a sealed container in the back.

3.8
aqueous solution of sulfuric acid. 10% (volume fraction).

3.9
aqueous sodium carbonate solution. 0.20g/mL.

3.10
Standard preservative. purity of greater than or equal to 98%. For more information refer to the Material standard tables in Appendix A A.1.

3.11
Standard stock solution. namely, accurately weighed amount of preservative standards (4.10), paired with acetonitrile concentration of 10mg/mL standard Quasi stock solution. Standard stock solution stored at 0 °C ~ 4 °C condition. Formulated once every 12 months.

3.12
mixed standard stock solution. Pipette appropriate amount of acid, sorbic acid, benzoic acid, dehydroacetic acid, methylparaben, hydroxy Benzoate, propyl paraben, butyl paraben, p-hydroxy benzoate and parabens 10 kinds of isobutyl Standard preservative stock solution

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with acetonitrile dubbed mixed standard stock solution at a concentration of 500μg/mL. Mixed standard stock solution at 0 °C ~ at 4 °C storage, preparation once every six months.

3.13

mixed standard working solution. mixed standard stock solution was diluted with acetonitrile to a suitable concentration of standard working solution. At 0 °C ~ 4 °C Storage conditions. Once every three months preparation.

4 Instruments and equipment

4.1

Gas chromatograph. equipped with a flame ionization detector (FID).

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