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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3858-2014

Determination of erythorbic acid in food for export. HPLC method

出口食品中异抗坏血酸的测定

(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. Exit Inspection and Quarantine Technology Center Xiamen People's Republic of China, People's Republic of China Entry-Exit Inspection Zhenjiang Inspection and quarantine bureau.

1 Scope

This standard specifies the HPLC method Isoascorbate of food for export.

This standard applies to canned meat, canned fish, rice pudding, canned fruit, wine, vinegar, beer, milk iso-ascorbic acid Determination.

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

3 Method summary

Erythorbic acid sample extraction with water, after the catalytic dehydrogenation of activated carbon, and o-phenylenediamine derivatized material having strong fluorescence, with the Equipped with a fluorescence detector measured by HPLC, external standard.

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4 Reagents and materials

Except where noted, all reagents were of analytical grade, test water shall meet the requirements of GB/T 6682 in one of the water.

4.1
acetonitrile. liquid chromatography.

4.2
methanol.

4.3
sodium acetate.

4.4
glacial acetic acid.

4.5
o-phenylenediamine. liquid chromatography.

4.6
dodecahydrate disodium hydrogen phosphate (Na2HPO4. 12H2O).

4.7
phosphoric acid.

4.8
activated carbon powder.200 mesh.

4.9
Standard. erythorbate standards, purity not less than 99%, CAS Number. 89-65-6.

4.10
sodium acetate buffer solution. Weigh 30.13g of sodium acetate were dissolved in 80mL water, adjusting the pH to 5.0 with glacial acetic acid with water after a given Volume to 100mL, spare.

Methanol solution of 4.11 20mmol/L o-phenylenediamine. Weigh 2.16g o-phenylenediamine, was dissolved in 1L of methanol, spare.

4.12 20mmol/LNa2HPO4 solution. Weigh 7.16gNa2HPO4. 12H2O was dissolved in 1L of water, the pH is adjusted with phosphoric acid 7.0 to spare.

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4.13

standard stock solution. weigh the amount erythorbate standard (accurate to 0.1mg), formulated with water to the stock solution 100mg/L, and avoid Save the light, save product after Standard and derivative time of 24h.

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