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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3854-2014

Determination of stevioside, rebaudioside A, glycyrrhizic acid and glycyrrhetinic acid in foods for export. HPLC method

出口食品中天然甜味剂甜菊糖苷、甜菊双糖苷、甘草酸、甘草次酸的测定 高效液相色谱法

(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. People's Republic of China Fujian Exit Inspection and Quarantine.

1 Scope

This standard provides the food for export stevioside, stevia glycosides double glycyrrhizin, glycyrrhetinic acid detection methods.

This standard applies to exports of beverages, condiments, pastries, pickled vegetables, canned meat, preserves, candy stevioside, stevia glycosides double, Licorice Acid, glycyrrhetinic 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 Principle 3 Sample sweeteners extracted with methanol, oil sample with petroleum ether to the oil and then extracted by high performance liquid chromatography - ultraviolet detector, External standard.

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4 Reagents and materials

Unless otherwise specified, reagents were of analytical grade water as a water GB/T 6682 regulations.

4.1
phosphoric acid.

4.2
acetonitrile. chromatography.

4.3
Methanol. chromatographically pure.

4.4
petroleum ether.

4.5
anhydrous sodium sulfate (Na2SO4). burning 4h at 650 °C, cooled in a desiccator to room temperature in a sealed bottle storage spare.

4.6
phosphoric acid solution. 0.02mol/L. Amount of phosphoric acid (4.1) 1.35mL, water volume to 1L.

4.7
methanol solution. Measure 50mL of methanol (4.3), water volume to 100mL.

4.8
stevioside, stevia double glycosides, glycyrrhizic acid, glycyrrhetinic acid standards (stevioside. English name stevioside, molecular formula C38H60O18, CAS No. 57817-89-7, molecular weight 804.86; Double Stevia glycosides. English name rebaudiosideA, molecular formula C44H70O23, CAS no. 58543-16-1, molecular weight 967.01; glycyrrhizinate. English name glycyrrhizicacid, molecular formula C42H62O16, CAS Number 1405 86-3, relative molecular mass 822.92; glycyrrhetinic acid. English name glycyrrhetinicacid, molecular formula C30H46O4, CAS No. 471-53-4, Molecular weight 470.7). Purity >=97%.

4.9
standard stock solution. Weigh 25.0mg stevioside, stevia double glycosides, glycyrrhizic acid, glycyrrhetinic acid standard with methanol (4.3) and dilute to 25.0mL, concentration of 1.00mg/mL, stored at 0 °C in the storage period of six months.

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