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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3844-2014

Determination of arbutin in fruit juice for export

出口果汁中熊果苷的测定

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

This standard is the first major law drafter. Kong Xianghong, HE Qiang, music love mountains, Zhao Jian, Li Jianhua, Wu Shuangmin.

1 Scope

This standard specifies the content of the juice arbutin liquid chromatography - tandem mass spectrometry and liquid chromatography methods.

This standard applies to apple juice, pomegranate juice, orange juice, grape juice, peach juice and fruit juice arbutin Determination and confirmation.

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 the first method by liquid chromatography - tandem mass spectrometry

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3 Method summary

After the dissolution of the sample with water, dried polystyrene - divinylbenzene copolymer SPE and amino solid phase extraction (SPE), liquid chromatography -Tandem mass spectrometer measured and confirmed, external standard.

4 Reagents and materials

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

4.1
Methanol. chromatographically pure.

4.2
acetonitrile. chromatography.

4.3
anhydrous sodium. 650 °C burning 4h, stored in a sealed container in the back.

4.4
Acetonitrile - Methanol (11, volume ratio). Measure 500mL of methanol and 500mL of acetonitrile were mixed uniformly.

4.5
Standard substance Arbutin (Arbutin, C12H16O7, CAS. 497-76-7). purity >=99%.

4.6
arbutin standard stock solution. accurately weighed amount of reference material arbutin, methanol made from standard stock solution 1000μg/mL of Liquid, 0 °C ~ 4 °C, valid for six months.

4.7
arbutin standard solution. the determination of serial dilutions required with acetonitrile and compounded into a standard working solution of appropriate concentration. 0 °C ~ 4 °C.

4.8
polystyrene - divinylbenzene copolymer SPE.200mg, 6mL or equivalent person. Before using successively with 5mL A Alcohol, 10mL water-activated, keep the cylinder moist.

4.9
Amino-SPE. 500mg, 3mL. Before using the column packing about 2cm high end of anhydrous sodium sulfate (4.3), with 5mL B Nitrile activation. Holding cylinder moist.

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4.10

microporous membrane. 0.2μm, organic.

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