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SN

INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

SN/T 3625-2013

Determination of asarone in food for export. Liquid chromatographic method

出口食品中细辛醚含量的测定 液相色谱法出口食品中细辛醚含量的测定 液相色谱法出口食品中细辛醚含量的测定 液相色谱法出口食品中细辛醚含量的测定 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.

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

This standard was drafted. People's Republic of China Zhejiang Exit Inspection and Quarantine.

1 Scope

This standard specifies the method of liquid chromatography in food the main component of asarone alpha- and beta- asarone content of white iris oil.

This standard applies to vodka, liquor, pork, smoked fish, green bean cake, seasoning powder, milk powder and other food exports in alpha- and beta- asarone Asarone Determination of.

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

The sample asarone extracted with acetonitrile, concentrated and purified by silica SPE column eluate was concentrated dissolved in methanol to volume, liquid Phase chromatography with fluorescence detector, external standard. Alcoholic beverage filtration membrane sample was measured directly on the machine.

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4 Reagents and materials

Water as a water GB/T 6682 regulations.

Ethyl acetate 4.1. HPLC grade.

4.2
acetonitrile. HPLC grade.

4.3
hexane. HPLC grade.

4.4
Methanol. HPLC grade.

4.5
Asarone standards. alpha- asarone. CAS No. 2883-98-9, relative molecular mass of 208.25, purity of greater than or equal to 98%;

beta- asarone, CAS No. 5273-86-9, relative molecular mass of 208.25, purity of greater than or equal to 95%.

4.6
preparation of standard stock solution. accurately weighed amount of asarone standards, prepared in methanol at a concentration of 1.0mg/mL of standard stock Preparation of the solution. The solution was formulated in a brown flask below -18 °C stored.

Preparation 4.7 standard intermediate solution. methanol concentration of the standard solution stepwise diluted to 1.0μg/mL. The solution was formulated in a brown container Flask below -18 °C stored.

Preparation 4.8 standard working solution. If necessary, draw a certain amount of standard intermediate solution before use, the appropriate concentration prepared in methanol mixtures Combined standard working solution. At 0 °C ~ 4 °C dark refrigerated.

4.9
silica SPE column. 1g, 6mL. Before using successively with 5mL of ethyl acetate, 5mL n-hexane activation.

4.10
microporous membrane. 0.45μm, organic.

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