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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3845-2014

Determination of multiple synthetic dyes in bottom material of chafing dish for export

出口火锅底料中多种合成色素的测定

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

1 Scope

This standard specifies the pot at the end of export feed more synthetic pigment liquid chromatography detection methods.

This standard applies to hot pot feed new red, amaranth red, carmine, the temptation to red, erythrosine, sunset yellow, Acid Red G, acidic red GR, Rhodamine B, Para Red, Sudan I, Sudan II, Determination of Sudan III, Sudan IV, Sudan and Sudan Orange G and 7B.

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 was melted at 60 °C, washed with methanol - extracted sample mixed solution of acetone and methanol and urea solution (containing 5% aqueous ammonia solution)

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Synthetic pigment, after liquid-liquid extraction distribution respectively through a polyamide resin column chromatography and gel permeation chromatography purification, liquid chromatography, external standard peak area Statutory amount.

4 Reagents and materials

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

4.1
Methanol. HPLC fractions.

4.2
acetone. HPLC fractions.

4.3
ethyl acetate.

4.4
cyclohexane.

4.5
phosphoric acid.

4.6
urea.

4.7
Ammonia. a concentration of 28%.

4.8
Anhydrous sodium dihydrogen phosphate.

4.9
sodium phosphate dibasic anhydrous.

4.10
methanol - acetone solution (11 volume). The volume of methanol (4.1) and acetone (4.2), and other mixed.

4.11
ethyl acetate - cyclohexane (11, volume ratio). Ethyl acetate (4.3), and cyclohexane (4.4) uniformly mixed in equal volumes.

4.12 80% methanol solution (containing 0.1% phosphoric acid). Take 80mL of methanol

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(4.1), was added 0.1mL phosphoric acid (4.5), dilute with water to 100mL.

4.13 2mol/L methanol solution of urea (containing 5% aqueous ammonia solution). Weigh 12g of urea (4.6), was dissolved in methanol (4.1), was added 5mL ammonia Water (4.7), dilute to 100mL with methanol (4.1).

4.14 50% phosphoric acid. An equal volume of phosphoric acid (4.5) mixed with water uniformly.

4.15 0.1% phosphoric acid solution. Pipette 0.1mL phosphate (4.5), diluted with water to 100mL.

4.16 5% ammonia - methanol solution. amount of 5mL ammonia (4.7) and 95mL of methanol (4.1), mix well.

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