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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3829-2014

Determination of 2-nitro-1, 4-benzenediamine and its salts in oxidative hair dyes for import and export-High performance liquid chromatography

进出口氧化型染发剂中2-硝基-p-苯二胺及其盐类测定 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.

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 Zhuhai Entry-Exit Inspection Inspection and Quarantine Bureau Technology Center.

1 Scope

This standard specifies the 2-nitro-oxidative hair dye -p- phenylenediamine and its salts by high performance liquid chromatographic method.

This standard applies to the determination of oxidative hair dye 2-nitro -p-phenylenediamine and its salts.

Principle 2

Samples with ethanol - water (11) ultrasonic extraction, the extract was filtered, measured by high performance liquid chromatography. According to their retention times and purple Outside the absorption spectrum of qualitative and external standard.

3 Reagents and materials

Unless otherwise indicated, the reagents used were of analytical grade, water is deionized water or equivalent purity.

3.1

ethanol. chromatography.

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3.2
citric acid.

3.3
octane sulfonate.

3.4
ethanol - water (11). Take an equal volume of ethanol (3.1) was mixed with purified water.

3.5 2-nitro -p- phenylenediamine standard (2-nitro-1,4-benzenediamine, CAS number. 5307-14-2). Purity >=97%.

3.6
Standard stock solution (1000mg/L). Weigh accurately 2-nitro -p- phenylenediamine (3.5) 0.1g (2-nitro -p- phenylenediamine using standard salts Required molar in terms of the radical), accurate to 0.0002g, set 100mL flask with ethanol - diluted with water to the mark (3.4), shake well.

3.7
standard solution. Pipette appropriate amount of standard stock solution (3.6), with ethanol - diluted with water (3.4) at a concentration of 10mg/L, 20mg/L, 50mg/L, 100mg/L, 200mg/L of standard working solution.

3.8
organic membranes. 0.45μm.

4 Instruments and equipment

4.1
high performance liquid chromatography with diode array detector.

4.2
ultrasonic cleaner (>=220W).

4.3
vortex mixer.

4.4
centrifuge. speed of not less than 4000r/min.

4.5
Electronic balance. a sense of the amount of 0.1mg.

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5.1 Extraction

Weigh 1.0g sample (accurate to 0.0002g), placed in 25mL tube with a stopper colorimetric with ethanol - diluted to the mark with water (3.4). In the vortex After mixing mixer, ultrasonic extraction 15min, transferred to a 25mL centrifuge tube with a stopper to 4000r/min speed centrifugal 8min, the Supernatant through 0.45μm membrane after liquid chromatography.

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