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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3153-2012

Determination of N, N-bis (2-hydroxyethyl)-p-phenylenediamine, N, N-dimethyl-p-phenylenediamine, N, N-diethyl-p-phenylenediamine, N-phenyl-p-phenylenediamine and their salts in oxidative hair dyes for export. High performance liquid chromatography

出口氧化型染发剂中N，N-双（1-羟乙基）-p-苯二胺、N，N-二甲基-p-苯二胺、N，N-二乙基-p-苯二胺、N-苯基-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. Xiamen, People's Republic of China Exit Inspection and Quarantine, Jimei University, People's Republic of China Zhuhai Entry Inspection and Quarantine Bureau.

1 Scope

This standard specifies the oxidative hair dye in N, N- (2-hydroxyethyl) -p- phenylenediamine, N, N- dimethyl -p- phenylenediamine, N, N- diethyl Group -p- phenylenediamine, N- phenyl HPLC method -p- phenylenediamine and its salts.

This standard applies to oxidative hair dye in N, N- (2-hydroxyethyl) -p- phenylenediamine, N, N- dimethyl -p- phenylenediamine, N, N- diethyl Yl -p- phenylenediamine, N- phenyl -p- phenylenediamine and its salts measurement.

Principle 2

The samples were ethanol - water (11 volume) ultrasonic extraction, and the extract after centrifugation, measured by high performance liquid chromatography, retention time Between 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

acetonitrile. chromatography.

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3.2
ethanol. chromatography.

3.3
octane sulfonate. chromatography.

3.4
dodecahydrate disodium hydrogen phosphate.

3.5
sodium dihydrogen phosphate.

3.6
sodium sulfite.

3.7
ethanol - water (11 volume). take an equal volume of ethanol (3.2) was mixed with water.

3.8
phosphate buffer solution (25mmol/L). Weigh dodecahydrate disodium hydrogen phosphate (3.4) 0.958g, sodium dihydrogen phosphate (3.5) 3.06g, Octane sulfonate (3.3) 1.0g, add water to 1000mL, 0.45μm membrane filter back.

3.9 1% sodium sulfite solution. Weigh 1.0g of sodium sulfite (3.6) dissolved in about 90mL water and dilute to 100mL.

3.10
N, N- bis (2-hydroxyethyl) -p- phenylenediamine standard (N, N-dimethyl-p-phenylenediamine, CAS No. 7575-35-1).

Purity >=98%.

3.11
N, N- dimethyl standard -p- phenylenediamine (N, N-dimethyl-p-phenylenediamine, CAS No. 99-98-9). purity >=98%.

3.12
N, N- diethyl-standard -p- phenylenediamine (N, N-diethyl-p-phenylenediamine, CAS No. 93-05-0). purity >=98%.

3.13
N- phenyl -p- phenylenediamine standard (N-phenyl-p-phenylenediamine, CAS No. 101-54-2). purity >=98%.

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3.14

Standard stock solution (2500mg/L). Weigh accurately N, N- bis (2-hydroxyethyl) -p-phenylenediamine (3.10), N, N- dimethyl terephthalate -p-Amine (3.11), N, N- diethyl -p-phenylenediamine (3.12) and N- phenyl -p- phenylenediamine (3.13) each 62.5mg (using standard salts, etc. required

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