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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3817-2014

Determination of N-phenyl-2-naphthylamine in pressure sensitive adhesive - High performance liquid chromatography

压敏胶中防老剂D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 Shandong CIQ.

1 Scope

This standard specifies a high performance liquid chromatographic method antioxidant D in the pressure-sensitive adhesive.

This standard applies to the determination of the pressure-sensitive adhesive in antioxidant D.

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.

GB/T 6682 analytical laboratory use specifications and test methods (ISO 3696)

3 Method summary

Sample was dissolved in ethyl acetate ultrasound with methanol to precipitate the polymer, the supernatant was filtered, measured by HPLC, external standard, Liquid chromatography - mass spectrometry confirmed positive.

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4 Reagents and materials

Unless otherwise specified, use only analytical reagent. The water used in line with GB/T 6682 provided a water.

4.1
Methanol. chromatographically pure.

4.2
ethyl acetate. chromatography.

4.3
acetonitrile. chromatography.

4.4
antioxidant D (N- phenyl-2-naphthylamine, CAS number. 135-88-6). Purity >=97%.

4.5
standard stock solution (1000mg/L). Weigh accurately antioxidant D standard 0.05g (accurate to 0.1mg) in 50mL volumetric flask Dissolved in methanol (4.1) and dilute to the mark, placed 4 °C refrigerator spare.

4.6
standard solution. required standard stock solution (4.5) into a standard working solution by diluting the concentration of methanol applicable. Ginseng Test the linear range of 1mg/L ~ 100mg/L.

4.7
The organic phase filter. 0.22μm.

5 Apparatus

5.1
liquid chromatograph. with diode array detector.

5.2
Analysis of balance. a sense of the amount of 0.1mg.

5.3
Centrifuge. the number of revolutions of up to 3000r/min.

5.4
Ultrasonic cleaning. the operating frequency of 40kHz.

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5.5
vortex mixer.

5.6
Glass vials. 40mL.

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