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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3646-2013

Determination of nitroimidazoles in oralhygiene. LC-MS/MS

口腔卫生产品中硝基咪唑类药物的检测方法 液相色谱-质谱/质谱法

(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 Guangdong CIQ.

1 Scope

This standard specifies the toothpaste and mouthwash metronidazole, tinidazole, ornidazole, Los metronidazole and dimetridazole liquid chromatography - mass spectrometry/mass Spectrum detection method. This method of measuring the low limit of 10.0mg/kg.

This standard applies to toothpaste and mouthwash metronidazole, tinidazole, ornidazole, Los metronidazole and dimetridazole detection.

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

Sample metronidazole, tinidazole, ornidazole, Los metronidazole and dimetridazole using acetonitrile in 0.1% formic acid diluted, after high-speed centrifugation, liquid Chromatography - mass spectrometry/mass spectrometry, external standard.

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4 Reagents and materials

Except where noted, all reagents were HPLC grade water to comply with a water GB/T 6682 regulations.

4.1
acetonitrile. HPLC grade.

4.2
Methanol. HPLC grade.

4.3
acid. HPLC grade (purity >=98%).

4.4 0.1% formic acid solution. Pipette 1.0mL of formic acid (4.3) to a 1L volumetric flask, add water to the mark, shake spare.

4.5
Diluent. acetonitrile in 0.1% formic acid (595, volume ratio). Measure 50mL acetonitrile (4.1) and 950mL0.1% formic acid solution (4.4) and mixed.

4.6
Standard substance. the name of the nitroimidazoles, suppliers, CAS, purity, see Appendix B, Table B.1.

4.7
standard stock solution. 1000mg/L. Were accurately weighed appropriate amount nitroimidazoles standards, and then methanol to 10.0mL, the stock standard solution in the dark, put the following -18 °C refrigerator Save to 12 months.

4.8
nitroimidazoles mixed standard stock solution. 100.0mg/L. Pipette appropriate amount of standard stock solution (4.7) to 10.0mL capacity Flask with methanol to volume. The stock was placed in a standard 0 °C ~ 4 °C refrigerator from light, shelf life of six months.

4.9
nitroimidazoles intermediate mixed standard stock solution. 1.0mg/L. Draw 1.0mL standard stock solution (4.8) into a 100mL Flask with methanol to volume. The standard stock was placed in a refrigerator 0 °C ~ 4 °C in the dark Save to 1 month.

4.10
standard working solution. draw a certain amount of 1.0mg/L nitroimidazoles intermediate mixed standard stock solution (4.9) as needed with dilute Dilutions (4.5) diluted to the appropriate concentration of the working standard solution, prepared before use.

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4.11 0.2μm membrane, water.

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