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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3645-2013

Determination of thirteen antibiotics in oral hygiene products. LC-MS/MS method

口腔卫生产品中十三种抗生素药物的检测方法 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 oral hygiene products, norfloxacin, ofloxacin, tetracycline, chlortetracycline, doxycycline, oxytetracycline, minocycline, Amoxicillin, lincomycin, clindamycin, roxithromycin, erythromycin, spiramycin three antibiotics more than 10 liquid chromatography - mass spectrometry/mass spectrometry detection Measuring method.

This standard applies to toothpaste and mouthwash norfloxacin, ofloxacin, tetracycline, chlortetracycline, doxycycline, oxytetracycline, minocycline, Amoxicillin, lincomycin, clindamycin, roxithromycin, erythromycin, spiramycin, more than 10 three antibiotics detection limit of determination 10.0mg/kg.

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

Thirteen specimen antibiotics with 0.1% formic acid - acetonitrile (955, volume ratio) was extracted, high speed centrifugation and filtration, dilute After release from the high-performance liquid chromatography - tandem mass spectrometer, external standard.

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4 Reagents and materials

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

4.1
acetonitrile. HPLC grade.

4.2
acid. HPLC grade (purity >=98%).

4.3
Standard substance. thirteen kinds of antibiotics in the English name, molecular formula, CAS number shown in Table 1.

Table 1 thirteen kinds of antibiotics in the English name, molecular formula, CAS Number

No. Chinese Name Formula CAS Number 1 norfloxacin Norfloxacin C16H18FN3O3 70458-96-7 2 ofloxacin Ofloxacin C18H20FN3O4 82419-36-1

3 Tetracycline Tetracycline C22H24N2O8 60-54-8 4 chlortetracycline Chlortetracycline C22H23ClN2O8 57-62-5

5 Terramycin Oxytetracycline C22H24N2O9 6153-64-6

6 Doxycycline Doxycycline C22H24N2O8 564-25-0

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