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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 3344-2012

**Determination of free glycerin in crude glycerin. Gas
chromatography**

粗甘油中游离甘油的测定 气相色谱法

(English Translation)

Issued on: December 12, 2016

Implemented on: July 1, 2017

**Issued by: General Administration of Quality Inspection and Quarantine
of PRC**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying these patents.

This standard was proposed by AND shall be under the jurisdiction of the National Certification and Accreditation Administration Committee.

Main drafting organizations of this standard. Shandong Entry-Exit Inspection and Quarantine Bureau of the People's Republic of China, Perfect (China) Co., Ltd.

1 Scope

This standard specifies the detection method of Burkholderia cepacia in cosmetics for import and export.

This standard applies to the qualitative detection of Burkholderia cepacia in cosmetics for import and export.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document;

for the undated documents, only the latest version (including all the amendments) is applicable to this standard.

GB 7918.1 Standard methods of microbiological examination for cosmetics -

General rules

3 Equipment and materials

In addition to the routine sterilization and culture equipment in the microbiology laboratory, other equipment and materials are as follows.

3.7 Sterile petri dish. 90 mm in diameter (or other commercial disposable sterile petri

dish).

5 Inspection procedures

See Figure 1 for the inspection procedure of *Burkholderia cepacia*.

6.1 Enrichment culture

Prepare a 1:10 cosmetic dilution, according to the method of GB 7918.1. Take 10 mL of dilution. Add it to 90 mL of SCDLP enrichment solution, which contains polymyxin B. Incubate at $36\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$ for 24 h.

6.2 Isolation and culture

Take one ring of BCSA enrichment solution, by an inoculation loop. Mark a line, to inoculate it on BCSA agar (containing polymyxin B, gentamicin) plate and MacConkey agar (containing polymyxin B, gentamicin) plate. Culture it at $32\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$ for 48 h.

6.3 Identification

Sample inspection

6.3.1 Initial screening

Pick more than 5 typical or suspicious colonies from the selective agar plate. Inoculate the same strain into two glucose oxidation/fermentation tubes, one of which is sealed with sterilized liquid paraffin, whilst the other is not sealed. Culture it at $36\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$

for 24 h.

6.3.5 Oxidation of sucrose

Pick suspicious colonies and inoculate them in sucrose oxidation medium. Incubate at

36 °C ± 1 °C for 24 h. If the culture turns yellow, it is positive; if it turns blue, it is

negative. *Burkholderia cepacia* is positive.

6.3.6 Utilization of citrate

Pick suspicious colonies and inoculate them in Simon's citrate medium. Incubate at

36 °C ± 1 °C for 24 hours. If the medium turns blue, it is positive; if it is light green, it

is negative. *Burkholderia cepacia* is positive.

6.3.7 Utilization of esculin

Pick suspicious colonies and inoculate them in esculin medium. Incubate at 30 °C ±

1 °C for 24 h. If the medium turns black, it is positive; if it does not change color, it is

negative. *Burkholderia cepacia* is positive.

6.3.8 Alternative tests

It can choose a biochemical identification kit or an automatic microbial biochemical identification system, to identify suspicious colonies, according to the preliminary judgment results in 6.3.1.

7 Report of results

Based on the above test results, it is reported that *Burkholderia cepacia* is detected or not detected in 10 g (mL) of samples.

8 Waste disposal

The waste in the testing process shall be disposed of in accordance with the relevant requirements of GB 19489.

Appendix A

(Normative)

Media and reagents

A.1 SCDLP enrichment solution containing polymyxin B

SN/T 4684-2016

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ENTRY AND EXIT INSPECTION AND QUARANTINE INDUSTRY

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import and export

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