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SN

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

SN/T 3390-2012

**Rules for the inspection of composite laminated
self-supporting bag for food packaging of plastics materials
and aluminum foil**

食品用塑料、铝箔复合自立袋检验规程

(English Translation)

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1 Scope

This document describes the qualitative test method for *Escherichia coli* in cosmetics.

This document is applicable to the test of *Escherichia coli* in cosmetics.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in the text. Among them, for dated references, only the version corresponding to the date applies to this document; for undated references, the latest version (including all amendments) applies to this document.

SN/T 5075 Specification for sample preparation for microbiological inspection of cosmetics

3 Terms and definitions

There are no terms and definitions that need to be defined in this document.

4 Method summary

This method uses the activity of beta-glucuronidase in *Escherichia coli*, which can decompose 5-bromo-4-chloro-3-indole-beta-D-glucuronide and form blue-green colonies on tryptic bile salt X-glucuronide agar plates, for qualitative testing.

Note: This method is not applicable to a small number of beta-glucuronidase-negative *Escherichia coli*, such as O157.

5 Equipment and materials

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

5.1

Constant temperature incubator

36 °C ± 1 °C.

5.2

Constant temperature device

48 °C ± 2 °C.

5.3

Refrigerator

2 °C ~ 8 °C.

5.4

Homogenizer or emulsion disperser (speed above 1000 r/min).

5.5

Electronic balance

Sensitivity 0.1 g.

5.6

Sterile conical flask

250 mL or 300 mL.

5.7

Sterile pipette

10 mL (with 0.1 mL scale).

5.8

Sterile culture dish

Diameter 90 mm.

5.9

Sterile homogenizing bag or homogenizing cup.

5.10

Sterile inoculation loop

10 µL (about 3 mm in diameter).

5.11

pH meter or precision pH test paper.

5.12 Quality control strains: *Escherichia coli* ATCC25922 or CGMCC 1.2385 or

equivalent strains as positive control; *Citrobacter freundii* ATCC 43864 or CICC 10296 or equivalent strains as negative control.

6.1 Soybean casein lecithin Tween 80 (SCDLP) liquid culture medium: According to

A.1.

6.2 Tryptone bile X-glucuronide (TBX) agar: According to A.2.

7.1 Inspection procedure for *Escherichia coli* in cosmetics

The inspection procedure for *Escherichia coli* in cosmetics is as shown in Figure 1.

Appendix A (Normative)

Main culture medium and reagents

A.1.1 Ingredients

Casein peptone: 17.0 g

Soybean protein peptone: 3.0 g

Sodium chloride: 5.0 g

Potassium hydrogen phosphate: 2.5 g

Glucose: 2.5 g

Lecithin: 1.0 g

Tween 80: 7.0 g

Distilled water: 1000 mL

A.1.2 Preparation method

First, heat and dissolve lecithin in a small amount of distilled water. Then mix with other ingredients. Heat and dissolve, 90 mL per bottle. Sterilize at 121 °C for 15 min.

Note that the oscillation shall be performed to mix the Tween 80 precipitated at the bottom layer thoroughly. Cool it to about 25 °C to prepare for use. The pH of the sterilized culture medium at 25 °C is 7.2 ± 0.2 .

A.2.1 Ingredients

Trypsin: 20.0 g

Bile salt No.3: 1.5 g

5-Bromo-4-chloro-3-indole-D-glucuronide (BCIG): 75.0 mg

Agar: 8.0 g ~ 18.0 g

Distilled water: 1000 mL

A.2.2 Preparation

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