



GB 4789.13-2012

**National Food Safety Standard
Food Microbiological Examination Clostridium
Perfringens**

食品安全国家标准

食品微生物学检验 产气荚膜梭菌检验

Ministry of Health

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National Standard of the People's Republic of China

GB 4789.13-2012

In Replacement of GB/T 4789.13-2003

National Food Safety Standard Food Microbiological Examination *Clostridium Perfringens*

食品安全国家标准

食品微生物学检验 产气荚膜梭菌检验

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Foreword

This standard replaces GB/T 4789.13-2003 “Microbiological examination of food hygiene – Examination of *Clostridium perfringens*”.

Compared with GB/T 4789.13-2003, the main changes made to this standard are as follows:

- the Chinese name of this standard has been modified;
- the sample preparation has been modified;
- the culture media and reagents have been modified;
- the operation procedures have been modified;
- the calculation of bacterial counts has been modified;
- Annex A has been added.

National Food Safety Standard

Food Microbiological Examination *Clostridium Perfringens***1 Scope**

This standard specifies the method for examination of *Clostridium perfringens* in foods.

This standard applies to the examination of *Clostridium perfringens* in foods.

2 Apparatus and Materials

In addition to the conventional apparatus for sterilization and incubation in microbiological laboratory, other apparatus and materials are as follows:

- a) Constant temperature incubator: $36^{\circ}\text{C} \pm 1^{\circ}\text{C}$;
- b) Refrigerator: $2^{\circ}\text{C} \sim 5^{\circ}\text{C}$;
- c) Constant temperature water bath: $50^{\circ}\text{C} \pm 1^{\circ}\text{C}$, $46^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$;
- d) Balance: with sensitivity of 0.1 g;
- e) Homogenizer;
- f) Microscope: $10\times \sim 100\times$;
- g) Sterile pipets: with nominal capacities of 1 mL (with 0.01 mL graduations) and 10 mL (with 0.1 mL graduations), or micropipette and pipette tips;
- h) Sterile test tubes: 18 mm $\times$ 180 mm;
- i) Sterile petri dishes: with diameter of 90 mm;
- j) pH meter or pH colorimetric tube or precision pH test paper;
- k) Anaerobic culture device.

3 Culture Media and Reagents

3.1 Tryptose-sulfite-cycloserine (TSC) agar: see Section A.1 in Annex A.

3.2 Thioglycollate medium (fluid) (FTG): see Section A.2 in Annex A.

3.3 Motility-nitrate medium, buffered: see Section A.3 in Annex A.

3.4 Lactose-gelatin medium: see Section A.4 in Annex A.

3.5 Iron milk medium: see Section A.5 in Annex A.

3.6 0.1% peptone water: see Section A.6 in Annex A.



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