



GB 4789.40-2024

National Food Safety Standard

Food Microbiology Testing Cronobacter Testing

食品安全国家标准 食品微生物学检验
克罗诺杆菌检验

National Health Commission of the People's
Republic of China
State Administration for Market Regulation

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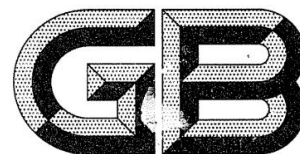
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National Standard of the People's Republic of China

GB 4789.40-2024
In Replacement of GB 4789.40-2016

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Foreword

This standard replaces GB 4789.40-2016 "National Food Safety Standard Food Microbiology Examination Cronobacter (*Enterobacter sakazakii*) Examination".

Compared with GB 4789.40-2016, the main changes of this standard are as follows:

- The standard name has been modified;
- The scope of application of the standard has been expanded to include infant and young children's complementary foods;
- The PCR identification method has been added as an optional content;
- Deleted the items of picking yellow colonies and producing yellow pigment and amygdalin in biochemical identification;
- The pH adjustment method of culture medium and reagents have been modified;
- The preheating temperature, selective bacterial enrichment temperature, and TSA plate culture temperature and time were modified;
- The culture temperature of the biochemical reaction and the preparation of the amino acid culture medium were modified.

National Food Safety Standard

Food Microbiology Testing

Cronobacter Testing

1 Scope

This standard specifies the presence of Cronobacter spp.

This standard applies to the detection of Cronobacter in infant formula, infant complementary foods, milk and dairy products and their raw materials.

2 Equipment and materials

In addition to routine sterilization and culture equipment for microbiology laboratories, other equipment and materials are as follows.

2.1 Constant temperature incubator: $36^{\circ}\text{C}\pm 1^{\circ}\text{C}$, $41.5^{\circ}\text{C}\pm 1^{\circ}\text{C}$.

2.2 Refrigerator: $2^{\circ}\text{C}\sim 5^{\circ}\text{C}$, -20°C .

2.3 Constant temperature water bath: $41.5^{\circ}\text{C}\pm 1^{\circ}\text{C}$.

2.4 Balance: sensitivity 0.1 g, 0.01 g.

2.5 Oscillator.

2.6 Sterile pipette: 1 mL (with 0.01 mL scale), 10 mL (with 0.1 mL scale) or micropipette and tip.

2.7 Sterile container: capacity 100 mL, 200 mL, 2000 mL.

2.8 Sterile culture dish: 90 mm in diameter.

2.9 pH meter or pH colorimetric tube or precision pH test paper.

2.10 Microbial biochemical identification system.

2.11 PCR instrument.



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