

Nutrient Broth No. 2 (NCM0189) (Preston Broth Base)

Intended Use

Nutrient Broth No. 2 is used for the cultivation of fastidious bacteria, and forms the base for Preston Broth according to ISO 10272-1:2017 for the cultivation of *Campylobacter* spp. This media is not intended for use in the diagnosis of disease or other conditions in humans.

Description

This broth can also be used as the suspending medium for cooked meat granules for the cultivation of anaerobic organisms.

Typical Formulation

| | |
|-----------------|----------|
| Beef Extract | 10.0 g/L |
| Peptone | 10.0 g/L |
| Sodium Chloride | 5.0 g/L |

Final pH: 7.3 ± 0.2 at 25°C

Formula may be adjusted and/or supplemented as required to meet performance specifications.

Supplements (when preparing Preston Broth)

X114 Modified Preston Campylobacter Supplement – 1 vial per 500mL

X115 Campylobacter Growth Supplement – 1 vial per 500mL

Precaution

Refer to SDS

Preparation

1. Dissolve 25 grams of the medium in one liter of purified water.
2. Heat with frequent agitation to completely dissolve the medium if necessary.
3. Autoclave at 121°C for 15 minutes.
4. When using Nutrient Broth No. 2 to prepare Preston Broth add 2 vials of X114 and 2 vials of X115. Mix well.

Test Procedure

Consult appropriate references for the isolation and identification of anaerobic bacteria.

Quality Control Specifications

Dehydrated Appearance: Powder is homogeneous, free flowing, and light beige.

Prepared Appearance: Prepared medium is brilliant to clear with no to light precipitate and yellow.

Minimum QC:

Staphylococcus aureus WDCM 00034

Escherichia coli WDCM 00013

Expected Cultural Response: Cultural response in Nutrient Broth incubated aerobically at 35 ± 2°C and examined for growth after 18 - 24 hours. For the cultivation of *Campylobacter* spp. refer to ISO 10272-1:2017.

Results

Turbidity indicates good growth.



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Technical Specification Sheet



Expiration

Refer to expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing or appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitations of the Procedures

Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

Storage

Store dehydrated culture media at 2-30°C away from direct sunlight. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

References

1. British Pharmacopoeia. (1973). H.M.S.O., London. Cruikshank, R. 1972). Medical Microbiology. 11th edn. Livingstone, London.
2. ISO 10272-1:2017. Microbiology of the Food Chain – Horizontal Method for Detection and Enumeration of *Campylobacter* spp – Part 1: Detection Method.

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