

Tryptose Phosphate Broth (NCM0148)

Intended Use

Tryptose Phosphate Broth is used for the cultivation of a wide variety of fastidious microorganisms and is not intended for use in the diagnosis of disease or other conditions in humans.

Description

This is a versatile, nutritionally rich buffered glucose broth. The medium is a general-purpose broth that has been used as a blood culture medium and with the addition of sodium azide 0.025% as a selective medium for streptococci in dairy products.

Typical Formulation

Tryptose	20.0 g/L
Dextrose	2.0 g/L
Sodium Chloride	5.0 g/L
Disodium Phosphate	2.5 g/L

pH: 7.3 ± 0.2 at 25°C

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

Precaution

Refer to SDS

Preparation

1. Dissolve 29.5 grams of the medium in one liter of purified water.
2. Mix thoroughly.
3. Autoclave at 121°C for 15 minutes

Test Procedure

Refer to appropriate references for a complete discussion on the application of Tryptose Phosphate Broth.

Quality Control Specifications

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

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

Expected Cultural Response: Cultural response in Tryptose Phosphate Broth incubated aerobically at 37 ±1°C and examined for growth after 18 – 48 hours.

Microorganism	Approx. Inoculum (CFU)	Expected Recovery
<i>Enterococcus faecalis</i> ATCC® 29212	10-100	Growth
<i>Escherichia coli</i> ATCC® 25922	10-100	Growth
<i>Neisseria meningitidis</i> ATCC® 13090	10-100	Growth
<i>Staphylococcus aureus</i> ATCC® 25923	10-100	Growth
<i>Streptococcus pyogenes</i> ATCC® 19615	10-100	Growth
<i>Streptococcus pneumoniae</i> ATCC® 6305	10-100	Growth

The organisms listed are the minimum that should be used for quality control testing.

Technical Specification Sheet



Results

Refer to appropriate references for results.

Expiration

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

Limitation of the Procedure

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 the container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

References

1. American Public Health Association (2004). Standard Method for the Examination of Dairy Products, 17th ed. A.P.H.A., New York.
2. American Public Health Association, (1950). Diagnostic Procedures and Reagents, 3rd ed., A.P.H.A., New York.

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