

Technical Information

Tryptose Phosphate Broth Cell Culture Tested

Product Code: AT1811

Application: Tryptose phosphate broth is used to supplement cell culture media. It is most commonly used to enhance the growth supporting property of Glasgow's Minimum Essential Medium for BHK-21 cells. It is also used in insect cell culture media.

Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Composition**

Ingredients	mg/Litre
Pancreatic Digest of Casein or Tryptone	10000.000
Peptone	5000.000
Yeast extract	5000.000
Dextrose	2000.000
Sodium chloride	5000.000
Disodium hydrogen phosphate	2500.000

Methodology

1. Suspend 29.5gms in 900ml tissue culture grade water with constant, gentle stirring until the powder is completely dissolved
2. Make up the volume to 1000ml.
3. Sterilize the broth immediately by auto claving at 15lbs pressure (121⁰C) for 15 minutes or by filtering through a sterile membrane filter with a porosity of 0.22 micron or less.
4. Store liquid medium at 2-8°C and in dark till use.

Quality Control

Appearance

White to off-white, homogenous, free flowing fine powder

Solubility

Clear colorless solution at 29.5gms/L

pH at 25°C

7.00 - 7.60

Cultural Response

The growth promotion capacity of the tryptose phosphate broth is assessed by supplementing it to a medium and checking the growth using appropriate cell line and comparing it with a control medium. Growth promotion studies are carried out through two or more subcultures. The medium is analyzed for its growth supporting property qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts.

Storage and Shelf Life

Store at 15-30°C away from bright light.

Shelf life is 5 years

Use before expiry date given on the product label.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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