

Tryptone Soya Broth with Phenol Red

Intended Use

Tryptone Soya Broth with Phenol Red is a general-purpose medium used for cultivation of a wide variety of microorganisms and recommended for sterility testing of Moulds and lower bacteria.

Summary

Tryptone Soya Broth with Phenol Red is used for cultivation of wide variety of microorganisms as well as for sterility testing. It is a modification of Tryptone Soya Broth with added pH indicator, phenol red. This facilitates identification of growth due to utilization of sugar indicated by colour change and turbidity. This medium therefore can be used for cultivation as well as for sterility testing.

Principle

The combination of pancreatic digest of casein and papaic digest of soyabean meal makes this medium nutritious by providing amino acids and long chain peptides and growth factor for the growth of microorganisms. Dextrose is carbohydrate source, which will be utilized by growing micro-organism resulting change in pH. which is indicated by colour change of the medium from red to yellow due to pH indicator, phenol red. Dipotassium phosphate buffers the medium. Sodium chloride maintains the osmotic balance of the medium.

Formula*

Ingredients	g/L
Pancreatic digest of Casein	17.0
Papaic digest of soyabean meal	3.0
Sodium chloride	5.0
Dextrose	2.5
Dibasic Potassium Phosphate	2.5
Phenol Red	0.018
Final pH (at 25°C)	7.3 ± 0.2

*Adjusted to suit performance parameters.

Storage and Stability

Store dehydrated medium below 30°C in tightly closed container and the prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Type of Specimen

Pharmaceutical samples

Specimen Collection and Handling

Ensure that all samples are properly labelled.

Follow appropriate techniques for handling samples as per established guidelines.

Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure.

The samples must be stored and tested within the permissible time duration.

After use, contaminated materials must be sterilized by autoclaving before discarding.

Directions

1. Suspend 30.02 g of the powder in 1000mL purified / distilled water.
2. Heat if necessary, to dissolve the powder completely.
3. Sterilize by autoclaving at 121°C (15 psi) for 15 minutes as per validated cycle.

Quality Control

Dehydrated Appearance: Light pink to red coloured homogenous, free flowing powder.

Prepared Appearance: Red coloured, clear solution without any precipitate.

Cultural Response: Cultural characteristics observed after an incubation at 35°C-37°C for 18-24 hours.

Organism (ATCC)	Growth	Colour of medium
<i>Escherichia coli</i> (25922)	Good	Yellow
<i>Bacillus spizizeii</i> (6633)	Good	Yellow
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> (25923)	Good	Yellow

Performance and Evaluation

Performance of the product is dependent on following parameters as per product label claim:

1. Directions
2. Storage
3. Expiry

Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

References

1. Vera. 1944. J. Bact., 47.
2. FDA, U.S. 1998. Bacteriological Analytical Manual. 8 ed. Gaithersburg, Md : AOAC International.
3. Data on file: Microxpress[®], A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat No.	Product description	Pack Size
201200300500	Dehydrated Culture Media	500 g

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.
