

TM 2392 – TRYPTONE SOYA BROTH W/PHENOL RED

INTENDED USE

A general purpose medium used for cultivation of a wide variety of microorganisms and recommended for sterility testing of moulds and lower bacteria.

PRODUCT SUMMARY AND EXPLANATION

Tryptone Soya Broth with Phenol Red is 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.

COMPOSITION

Ingredients	Gms / Ltr
Pancreatic digest of Casein	17.000
Papaic digest of soyabean meal	3.000
Sodium chloride	5.000
Dibasic potassium phosphate	2.500
Dextrose	2.500
Phenol red	0.018

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.

INSTRUCTION FOR USE

- Suspend 30.02 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Light yellow to pink homogeneous free flowing powder.
Appearance of prepared medium	: Light pink coloured clear solution without any precipitate.
pH (at 25°C)	: 7.3±0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Color of the medium	Incubation Temperature	Incubation Period



<i>Escherichia coli</i>	25922	50-100	Luxuriant	Yellow	35 - 37°C	18-48 Hours
<i>Bacillus subtilis</i>	6633	50-100	Luxuriant	Yellow	35 - 37°C	18-48 Hours
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	Yellow	35 - 37°C	18-48 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.










Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. The United States Pharmacopoeia / National Formulary, 1995, 23/18, The United States Pharmacopoeial Convention Inc., Rockville, MD.
2. Indian Pharmacopoeia, 1996, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
Revision: 08 Nov., 2019