



Tryptone Soya Broth

LQ508

Sterility testing media also used as a general purpose medium for the growth of aerobes & fungi.

Composition**

Ingredients	Gms / Litre
Pancreatic digest of casein	17.000
Papaic digest of soyabean meal	3.000
Sodium chloride	5.000
Dextrose	2.500
Dibasic potassium phosphate	2.500
Final pH (at 25°C)	7.3±0.2

**Formula adjusted, standardized to suit performance parameters

Principle And Interpretation

Soyabean Casein Digest Medium is recommended by various pharmacopeias as a sterility testing and as a microbial limit testing medium (1, 2, 3). This medium is a highly nutritious medium used for cultivation of a wide variety of organisms (4).

The combination of pancreatic digest of casein and papaic digest of soyabean meal makes the medium nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Dextrose and dibasic potassium phosphate serve as the carbohydrate source and the buffer, respectively in the medium. Sodium chloride maintains the osmotic balance of the medium.

Quality Control

Appearance

Sterile Tryptone Soya Broth in a glass bottle.

Colour

Light yellow coloured clear solution

Quantity of Medium

200 ml of medium in glass bottle.

pH

7.10-7.50

Growth Promotion Test

In accordance with the harmonized method of USP/EP/BP/JP.

Sterility Test

Passes release criteria.

Cultural Response

Organism	Inoculum (CFU)	Growth
Growth at 30-35°C for <= 3 days		
<i>Escherichia coli</i> ATCC 25922	50 -100	luxuriant
<i>Escherichia coli</i> ATCC 8739	50 -100	luxuriant
<i>Escherichia coli</i> NCTC 9002	50 -100	luxuriant
<i>Salmonella</i> Abony NCTC 6017	50 -100	luxuriant

<i>Salmonella Typhimurium</i> ATCC 14028	50 -100	luxuriant
<i>Bacillus subtilis</i> ATCC 6633	50 -100	luxuriant
<i>Staphylococcus aureus</i> ATCC25923	50 -100	luxuriant
<i>Staphylococcus aureus</i> ATCC 6538	50 -100	luxuriant
<i>Micrococcus luteus</i> ATCC 9341	50 -100	luxuriant
<i>Streptococcus pneumoniae</i> ATCC 6305	50 -100	luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	50 -100	luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 9027	50 -100	luxuriant
Growth at 20-25°C for <= 5 days		
<i>Candida albicans</i> ATCC10231	50 -100	luxuriant
<i>Candida albicans</i> ATCC 2091	50 -100	luxuriant
* <i>Aspergillus brasiliensis</i> ATCC 16404	50 -100	luxuriant

Storage and Shelf Life

Store between 15-25°C. Use before expiry date on the label.

Reference

1. MacFaddin J. F., 1985, Media for Isolation-Cultivation Identification-Maintenance of Medical Bacteria, Vol. 1, Williams & Wilkins, Baltimore, M.d.
2. The United States Pharmacopeia, 2011, USP34/NF29, The United States Pharmacopeial Convention, Rockville, MD.
3. Indian Pharmacopeia, 2010, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.
4. Forbes B. A., Sahm D. F. and Weissfeld A. S., 1998, Bailey & Scotts Diagnostic Microbiology, 10th Ed., Mosby, Inc. St. Louis, Mo.

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