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TECHNICAL INFORMATION

Catalog Number: 157152
Tryptic Soy Broth

Description: For the cultivation of fastidious and non-fastidious microorganisms. Tryptic Soy Broth is a highly nutritive and very versatile medium recommended for general use in the laboratory. The medium promotes abundant growth of fastidious microorganisms without the necessity of adding serum and other materials.

Formulation:

Approximate formula in gm/L			
Casein Peptone	17.0	Soy Peptone	3.0
Sodium Chloride	5.0	Dipotassium Phosphate	2.5
Dextrose	2.5		

Final pH 7.3 ± 0.2

Preparation:

Suspend 30 g of the medium in one liter of distilled or deionized water. Mix well. Heat slowly until the medium is dissolved. Dispense and sterilize at 121°C (15 lbs of pressure) for 15 minutes.

Uses:

Tryptic Soy Broth is used frequently in many procedures of diagnostic research or microbiology. For example, it is used for the isolation and sensitivity testing of all types of pathogens, and for the production of antigens for agglutination and serological tests. Other uses include:

- Urine cultures
- Blood cultures
- Cultivation of cerebrospinal fluid
- Antibiotic sensitivity testing
- Cultivation of anaerobic microorganisms, vibrios, and Bacteroides
- Preparation of bacterial antigens
- Examination of solid foods
- Tests for bile solubility
- Qualitative examination of yeasts and molds
- With blood the medium becomes richer so that it can cultivate a wider variety of microorganisms.

Microbiological Test:

The following typical results were obtained in the performance of the medium from type cultures after incubation at a temperature of 37°C and observed after 24-72 hours.

Microorganisms

	Growth
<i>Brucella abortus</i> ATCC 4315	Good
<i>Staphylococcus aureus</i> ATCC 25923	Good
<i>Escherichia coli</i> ATCC 25922	Good
<i>Enterobacter aerogenes</i> ATCC 13048	Good
<i>Candida albicans</i> ATCC 10231	Good
<i>Streptococcus pyogenes</i> ATCC 19615	Good
<i>Streptococcus pneumoniae</i> ATCC 6303	Good

Availability: Available in either 250 gram or 1 kg sizes.

References:

- Gibbons and McDonald, *J. Bacteriol.*, v. **80**: 164 (1960).
- Havens and Benham, *A. Med. Tech.*, v. **23**: 305 (1957).
- Muey and Edward, *Proc. Soc. Exper. Biol. and Med.*, v. **97**: 550 (1958).
- Steward and Kelly, *J. Bacteriol.*, v. **77**:101 (1959).