

Product Name : TRYPTIC SOY AGAR(TSA)

Medium for the growth of a wide variety of microorganisms.

TYPICAL FORMULA (g/l)

Tryptone 15.0
Soytone 5.0
Sodium Chloride 5.0
Agar 15.0
Final pH = 7.3 ± 0.2 at 25°C.

DIRECTIONS

Suspend 40.0 g of powder in 1 litre of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize in the autoclave at 121°C for 15 minutes. Cool to 45-50°C. Mix well. Dispense in petri dishes.

DESCRIPTION

TRYPTIC SOY AGAR(TSA) is a medium for isolation, cultivation and maintenance of fastidious microorganisms, prepared. Adding of blood (rabbit, horse, sheep) permits the evidention of emolytic zones of streptococci and other bacteria

TECHNIQUE

Inoculate the sample onto the medium using a sterile spatulum and incubate at 36 ± 1°C for 18-24 under approximately 5-10% CO₂ atmosphere.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Colour: light beige.

Prepared medium

Appearance: opaque, with no hemolysis.

Colour: cherry red.

Incubation conditions: 36 ± 1°C / 18-24 hours / 5-10% CO₂ .

Microorganism	ATCC	Growth	Hemolysis
<i>Escherichia coli</i>	25922	good	-
<i>Staphylococcus aureus</i>	25923	good	beta
<i>Streptococcus pneumoniae</i>	6305	good	alpha
<i>Streptococcus pyogenes</i>	19615	good	beta

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PERFORMANCE AND LIMITATIONS

It should be noted that haemolytic reactions of streptococci on Tryptic Soy Agar can vary according to the origin of the blood e.g. horse or sheep. Tryptic Soy Agar designed for sheep blood show significant differences when used with horse blood and vice versa.

STORAGE

The powder is very hygroscopic: store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared plates at 2-8°C.

REFERENCES

1. Swanson, K.J., F.F. Busta, E.H. Peterson, and M.G. Johnson. (1992). Colony Count Methods, p. 75-95.
2. The United States Pharmacopeia . (1995). Microbiological tests, p. 1681- 1686. The United States pharmacopeia, 23rd Ed. United States Pharmacopeial Convention, Rockville, MD.
3. ISO 9308-1:2000 Water quality - Detection and enumeration of Escherichia coli and coliform bacteria - Part 1: Membrane filtration method.

PACKAGING

Cat. NO MB-T1052 TRYPTIC SOY AGAR(TSA)	500 g
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