

Product Name : Tryptic Soy Blood Agar

Medium for cultivating fastidious microorganisms and for the visualization of hemolytic reactions produced by many bacterial species.

TYPICAL FORMULA (G/L)

Tryptone H Plus 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 L 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. Aseptically add 5-10% of Sheep Blood Defibrinated (MB-S1876). Mix well. Dispense in petri dishes.

DESCRIPTION

Tryptic Soy Blood Agar is used for cultivating fastidious microorganisms and for the visualization of hemolytic reactions produced by many bacterial species.

TECHNIQUE

Prepare the medium per label directions with 5% sheep blood. Inoculate and incubate at 35 ± 2 °C for 18-48 hours under 5-10% CO₂.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

Prepared medium

Appearance: opaque, with no hemolysis.

Color: cherry red.

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

Microorganism	ATCC	Growth	Hemolysis
<i>Escherichia coli</i>	25922	good	beta
<i>Neisseria meningitidis</i>	13090	good	none
<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 Blood Agar can vary according to the origin of the blood e.g. horse or sheep. Tryptic Soy Blood 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 room temperature, 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 medium at 2-6°C.

REFERENCES

1. Vera. 1971. Health Lab Sci. 8:176.
2. Finegold and Martin. 1982. Bailey & Scott's diagnostic microbiology, 6th ed. The C.V. Mosby Company, St. Louis, Mo.
3. Nash and Krenz. 1991. In Balows, Hausler, Herrmann, Isenberg and Shadomy (ed.), Manual of clinical microbiology, 5th ed. American Society for Microbiology, Washington, D.C.
4. Ruoff, Whiley and Beighton. 1999. In Murray, Baron, Pfaller, Tenover and Tenover (ed.), Manual of clinical microbiology, 7th ed. American Society for Microbiology, Washington, D.C.

PACKAGING

Cat. No : MB-T0689 Tryptic Soy Blood Agar	500 G
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