

Streptococcus Selective Agar

For the enrichment and isolation of Streptococcus from diverse clinical amaterials of highly contaminated products of sanitary importance

Formula in grams per liter:

Casein Peptone	15,00	Soy Peptone	5,00
Sodium Chloride	4,00	Sodium Citrate	1,00
L-Cystine	0,20	Sodium Sulfite	0,20
Dextrose	5,00	Sodium Azide	0,20
Crystal Violet	0,0002	Bacteriological Agar	12,00

Final pH: 7,4 ± 0,2 at 25 °C

Preparation:

Suspend 42,6 grams of the medium in one litre of distilled water. Mix well and leave to soak 10-15 minutes to allow the agar particles to hydrate properly. Heat agitating frequently and boil for 1 minute. Sterilize in an autoclave at (12 lbs. of pressure) 118°C for 15 minutes. Avoid overheating. Cool to 45-50°C and pour into Petri dishes. Invert the solidified agar plates to avoid excess water condensation.

Uses:

Basically this medium is the same as Streptococcus Selective Broth (Streptosel Broth) to which has been added 1,5% agar.

It has the same use as the broth previously mentioned. Adding 0,5% of sterile defibrinated sheep or rabbit blood notably increases its nutritional power and hemolytic studies can be conducted. These conditions yield good results in the isolation and identification of different groups of Streptococcus such as the alpha and beta-hemolytic, and the non-hemolytic.

Microbiological Tests:

Microorganisms	Growth
<i>Escherichia coli</i> ATCC 25922	Inhibited
<i>Streptococcus faecalis</i> ATCC 19433	Satisfactory
<i>Streptococcus faecium</i> ATCC 27270	Satisfactory

