

PRODUCT INFORMATION

Streptococcus Selective Agar

Cat. No. S19-106

DESCRIPTION

Streptococcus Selective Agar is a medium used for the isolation of Streptococcus species. Streptococci are commonly isolated from the upper respiratory tract. They are also often isolated from burns and other sites where frequently there is an abundance of competing organisms.

Enzymatic digest of casein and soy peptone provide nitrogen, vitamins, minerals and amino acids essential for growth. Organisms positive for esculin hydrolysis hydrolyze the glycoside esculin to esculetin and dextrose. The esculetin reacts with the ferroammonium citrate to form a dark brown or black colony. Neomycin provides suppression of normal flora for improved recovery of the group A and group B. Colistin breaks the cell membrane of Gram negative microorganisms, especially Pseudomonas species. Sodium chloride supplies essential electrolytes for transport and osmotic balance. Bacteriological agar is the solidifying agent.

FORMULA (g/L)

Bacteriological agar	13.1 g	Casein peptone	12.6 g
Sodium chloride	5.0 g	Beef Extract	6.8 g
D-Maltose monohydrate	0.3 g	Ribonucleic acid sodium salt	5.5 g
Sodium carbonate			

Final pH: 7.3 ± 0.2 at 25 °C

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Suspend 43,53 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. mix well and dispense into plates AVOID OVERHEATING. DO NOT AUTOCLAVE.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and beige.
2. Visually the prepared medium is amber, slightly opalescent, without rests.
3. Expected cultural response after 24-48 hours at 35 °C ± 2°C.

ORGANISM	RESULT
<i>Streptococcus pyogenes</i> ATCC 19615	Good Growth
<i>Staphylococcus aureus</i> ATCC 25923	Total Inhibition

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 25°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.