PRODUCT INFORMATION

Schaedler Broth

Cat. No. S19-105

DESCRIPTION

Schaedler Broth is a non-selective medium for cultivating and enumerating anaerobic and aerobic microorganisms. Schaedler Broth was first described by Schaedler et al. as an enriched medium for the isolation of anaerobes from mixed bacteria flora from the gastrointestinal track of mice. *Mata et al*., substituting Trypto Soy Broth for casein digest peptone in the Schaedler formulation, found that this medium gave excellent recovery of anaerobic and microaerophilic organisms from human fecal and gastrointestinal specimens. Schaedler Broth gave the highest rate of growth and response of anaerobic bacteria of nine broth media studied by *Stalons et al*. General growth requirements are supplied by Trypto Soy Broth, dipeptone, yeast extract and dextrose. Hemin and cystine are added for specific requirements of some anaerobes. Blood and other enrichments may be added to enhance growth characteristics.

FORMULA (g/L)

Tryptic Soy Broth	10.0 g	Casein Digest Peptone	2.5 g
Peptic Digest of Animal Tissue	2.5 g	Hemin	0.1 g
Yeast Extract	5.0 g	Dextrose	5.0 g
Tris Amino Methane	3.0 g	L-Cystine	0.4 g

Final pH: 7.6 ± 0.2 at 25 ºC

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

PREPARATION

Mix 28.4 grams of the medium in one Liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121.0°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing, and light beige.
2. Visually the prepared medium is clear to trace haze and light amber in color.

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3. Expected cultural response after 18-48 hours at 35°C ± 0.2.

ORGANISM	RESULT
Bacteroides fragilis ATCC 25285	Growth
Clostridium perfringens ATCC 13124	Growth
Streptococcus pyogenes ATCC 19615	Growth

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°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.

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