

SCHAEDLER BROTH

Basal medium for aerobic and anaerobic bacteria isolation.

TYPICAL FORMULA (g/l)

Tryptic Soy Broth	10.0
Tryptone	5.0
Yeast Extract	5.0
Glucose	5.0
Hemin	0.01
L-Cystine	0.4

Final pH = 7.6 ± 0.2 at 25 °C.

DIRECTIONS

Suspend 25.4 g of powder in 1 liter of distilled or deionized water. Heat to boiling until completely dissolved. Dispense into final containers. Sterilize in the autoclave at 121 °C for 15 minutes.

DESCRIPTION

SCHAEDLER BROTH is a nonselective medium used for fastidious aerobic and anaerobic bacteria, such as lactobacilli, streptococci, clostridia and *Bacteroides*. The medium is highly nutritious due to its content of peptones, glucose and yeast extract. Hemin supplies the X factor required by many fastidious microorganisms.

TECHNIQUE

Cool the medium at 25°C. If the medium is not used immediately after its preparation, it must be regenerated at 100°C for 20 minutes in order to restore conditions of anaerobiosis. Do not repeat this operation more than once. Inoculate the material to examine into the tube using a sterile bent glass rod. Incubate at 36±1°C for 18-48 hours in aero/anaerobic conditions required by the species being studied.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light tan.

Prepared medium

Appearance: clear to slightly opalescent, may have a slight precipitate.

Color: light to medium amber.

Incubation conditions: 36 ± 1 °C for 18-48 hours.

Microorganism	ATCC	Growth
<i>Clostridium perfringens</i>	13124	good
<i>Streptococcus pyogenes</i>	19615	good
<i>Escherichia coli</i>	25922	good
<i>Staphylococcus aureus</i>	25923	good

PERFORMANCE AND LIMITATIONS

Since the nutritional requirements of organisms are different, some strains may be encountered that fail to grow or grow poorly on this medium.

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 tubes at 2-8 °C.

REFERENCES

- MacFaddin, J.D. (1985). Media for isolation-cultivation-identification-maintenance of medical bacteria, p. 695-699, vol. 1. Williams & Wilkins, Baltimore, MD.
- Schaedler, R.W., R. Dubos, and R. Costello. (1965). The development of bacterial flora in the gastrointestinal tract of mice. J. Exp. Med. **122**: 59.

PRESENTATION

Product	REF	
SCHAEDLER BROTH (19.6 l)	610137	500 g
SCHAEDLER BROTH (3.9 l)	620137	100 g

TABLE OF SYMBOLS

 Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests	 In Vitro Diagnostic Medical Device
 Catalogue number	 Fragile, handle with care	 Use by	 Temperature limitation	 Keep away from heat source



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