
Product Name : Schaedler Agar Base

Basal medium for aerobic and anaerobic bacteria isolation.

FORMULA (G/L)

Tryptic Soy Broth10.0
Peptospecial 5.0
Yeast Extract 5.0
Glucose 5.0
Hemin0.01
L-Cystine 0.4
Agar13.5
Final pH = 7.6 ± 0.2 at 25°C.

DIRECTIONS

Suspend 38.92 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% Sheep Blood Defibrinated (MB-S1876) and 2 vials of Vitamin K 1% supplement (MB-V1853). To prepare Schaedler KKV Agar add 2 vials of Schaedler supplement (MB-S1854). Mix well. Dispense into petri dishes.

Vitamin K 1% supplement

1 Vial contents (each vial in sufficient for 500mL of medium)
Vitamin K.....5.0 mg

Schaedler supplement

1 Vial contents (each vial in sufficient for 500mL of medium)
Kanamycin.....50.0 mg
Vancomycin.....3.75 mg

DESCRIPTION

Schaedler Agar Base 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. Blood and other enrichments are added to further enhance growth capabilities.

TECHNIQUE

The sample suspension is diluted as necessary in order to obtain separated and countable colonies. A calibrated loopful is then spread onto the surface of a Schaedler Agar plate. Conditions of incubation will vary according to the type of organisms under test.

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 / 18-48 hours.

Kisan Biotech Co., Ltd.

2F, Kisan B/D, 86-2, YangJae-Dong, SeoCho-Gu, Seoul #137-135 South Korea

TEL: 82-2-529-2282 FAX: 82-2-529-2284 www.kisanbio.com , www.KSBio.com



Product Name : Schaedler Agar Base

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

*incubated anaerobically

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 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. MacFaddin, J.D. (1985). Media for isolation-cultivation-identification identification-maintenance of medical bacteria, p. 695-699, vol. 1. Williams & Wilkins ,Baltimore, MD.
2. 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.

PACKAGING

Cat. No : MB-S1043 Schaedler Agar Base	500 G
---	-------