

SCHAEDLER AGAR BASE

Basal medium for aerobic and anaerobic bacteria isolation.

TYPICAL FORMULA (g/l)

| | |
|-------------------|------|
| Tryptic Soy Broth | 10.0 |
| Peptospecial | 5.0 |
| Yeast Extract | 5.0 |
| Glucose | 5.0 |
| Hemin | 0.01 |
| L-Cystine | 0.4 |
| Agar | 13.5 |

Final pH = 7.6 ± 0.2 at 25 °C.

DIRECTIONS

Suspend 38.9 g of powder in 1 liter 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% defibrinated sheep blood (code 83296) and 1 ml of Vitamin K 1% supplement (code 80053).

Add 2 vials of Schaedler supplement (Kanamycin 50 mg/ vial, Vancomycin 3.75 mg/vial, code 81054) for preparing Schaedler KKV Agar.

Final medium will contain 100 mg of Kanamycin and 7.5 mg of Vancomycin per liter.

Mix well. Dispense into Petri dishes.

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 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 |

*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.

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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 plates at 2-8 °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.

PRESENTATION












| Product | REF |  |
|------------------------------|--------|---|
| SCHAEDLER AGAR BASE (12.8 l) | 610043 | 500 g |
| SCHAEDLER AGAR BASE (2.5 l) | 620043 | 100 g |
| SHEEP BLOOD DEFIBRINATED | 83296 | 50 ml |
| VITAMIN K 1% supplement | 80053 | 5 x 5 ml |
| SCHAEDLER supplement | 81054 | 10 vials |

TABLE OF SYMBOLS

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

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