



Reference : 01-689

Scharlau Microbiology - Technical data sheet

Product :
BLOOD AGAR BASE MODIFIED

Specificacion

Culture medium developed specially to manufacture plates with blood

Formula * in g/L

Meat peptone.....	2,50
Tryptone.....	7,50
L(+)-Lysine.....	0,04
Sodium chloride.....	8,00
Monopotassium fosfate.....	0,25
Disodium fosfate.....	1,75
Sodium bisulfite.....	0,10
Agar.....	13,50

Final pH 7,0 ±0,2 at 25 °C

* Adjusted and /or supplemented as required to meet performance criteria

Directions

Suspend 33,64 g of powder in 1 L of distilled water . Bring it to the boiling and distribute into suitable containers. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 45-50°C and aseptically add 5% steril defibrinated blood .

Description

Blood Agar Base contains a balanced mixture of meat and casein peptones, making it suitable for preparing selective media and as a diagnostic medium with the addition of blood or inhibitors. The base formulation, without additives, is also an excellent general culture medium. Generally, Blood Agar base contains a casein peptone, that aids large colony formation, or a meat peptone, that provides for well defined haemolysis haloes or zones.

Quality control

Incubation temperature: 35°C±2,0

Incubation time: 48 -72h

Inoculum: 10-100 CFU. Spiral Plate Method (according to standard ISO/TS 11133-1/2)

Microorganism

Growth

Remarks

<i>Staphylococcus aureus</i> ATCC 25923	Productivity > 0.70	b-hemolysis
<i>Staphylococcus aureus</i> ATCC 6538	Productivity > 0.70	b-hemolysis
<i>Enterococcus faecalis</i> ATCC 19433	Productivity > 0.70	g-hemolysis
<i>Escherichia coli</i> ATCC 8739	Productivity > 0.70	g-hemolysis
<i>Streptococcus pyogenes</i> ATCC 19615	Productivity > 0.70	b-hemolysis
<i>Streptococcus pneumoniae</i> ATCC 49619	Productivity > 0.70	a-hemolysis

References

- BRAVENY, I. & GROTE, R. (1973) Ein Selektivsubstrat zur Isolierung von *Listeria monocytogenes*. Experientia 29, 1553.
- ISO/TS 11133-1: 2009. Microbiology of food and animal feeding stuffs.- Guidelines on preparation and production of culture media. Part 1: General guidelines on quality assurance for the preparation of culture media in the laboratory.
- ISO/TS 11133-2: 2003 Corr. 2004. Microbiology of food and animal feeding stuffs.- Guidelines on preparation and production of culture media. Part 2: Practical guidelines on performance testing of culture media.
- LIEBERMEISTER, K. & J. BRAVENY (1971) Ein Nährsubstrat zur Isolierung von haemolytischen Streptokokken. Z. Med. Mikrobiol. Immunol. 156:149-153.
- MILATOVIC, D. (1981) Comparison of five selective media for beta-haemolytic streptococci. J. Clin. Pathol. 34:556-558.
- OKAMOTO, H., S. KYODA, R. ITO (1939) Jap. J. Med. Sci. VI Pharmacol. 12:167.

Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C and <60 % RH).

Packaging