Reference : 01-505

Product :
BLOOD AGAR BASE No. 2

***Scharlau Microbiology* - Technical data sheet**

CE IVD

Specification

Nutrient rich medium suitable for the isolation of pathogenic microorganisms from clinical specimens and ISO standard.

Formula * in g/L

Proteose peptone..... 15,00
Liver extract..... 2,50
Yeast extract..... 5,00
Sodium chloride..... 5,00
Agar..... 15,00

Final pH 7,2 ±0,2 at 25 ºC

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

Directions

Suspend 42,5 g in 950 mL of distilled water and bring to boil. Distribute into flasks and sterilize in the autoclave at 121ºC for 15 minutes. Cool to 45-50ºC and aseptically add 5% of sterile defibrinated blood. Mix gently and pour into plates.
Note: Blood and medium should be mixed in a big flask to ensure proper blood oxidation and mixing.

Description

Blood Agar Base No. 2 allows maximum recovery of weak organisms without altering or interfering in their haemolytic reactions. Compared to other Blood Agar bases, Blood Agar Base No. 2 has an equal or higher stimulatory growth capacity, however it is specially formulated to promote pigment production in chromogenic bacteria.

Quality control

Incubation temperature: 37°C ±1,0 **Incubation time:** 24-48 h

Inoculum: Practical range 100 ± 20 CFU. Min. 50 CFU (Productivity) according to ISO 11133:2014/Amd 1:2018 & Adm 2:2020

Microorganism	Growth	Remarks
Escherichia coli ATCC® 8739	Productivity > 0.70	g-hemolysis
Staphylococcus aureus ATCC® 6538	Productivity > 0.70	ß-hemolysis
Streptococcus pyogenes ATCC® 19615	Productivity > 0.70	ß-hemolysis
Streptococcus pneumoniae ATCC® 49619	Productivity > 0.70	a-haemolysis
Neisseria meningitidis ATCC® 13090	Productivity > 0.70	g-haemolysis
Listeria monocytogenes ATCC® 13932	Productivity > 0.70	ß-hemolysis
Bacillus cereus var. mycoides ATCC® 11778	Productivity > 0.70	ß-hemolysis
Bacillus subtilis ATCC® 6633	Productivity > 0.70	ß-hemolysis

References

· ATLAS, R.M. & L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press. Boca Raton. Fla.
· CASMAN, E. (1947) A non-infusion blood agar base for neisseriae, pneumococci and streptococci. Am. J. Clin. Path. 17:281-289.
· DOWNES, F.P. & K. ITO (2001) Compendium of methods for the Microbiological Examination of Foods. APHA. Washington.
· FDA (Food and Drug Adminstrations) (1998) Bacteriological Analytical Manual. 8th ed. Rev. A. APHA International. Gaithersburg, VA.
· ISO 7932 Standard (2003) Microbiology of food and animal feeding stuffs. Horizontal Methods for the enumeration of presumptive Bacillus cereus. Colony count technique at 30°C.
. ISO 11133:2014/ Adm 1:2018/ Adm 2:2020/ Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
· ISO 11290-1:2017 Standard. Microbiology of the food chain. Horizontal method for the detection and enumeration of Listeria monocytogenes and for Listeria spp.- Part 1: Detection Method
· ISO 11290-2:2017 Standard. Microbiology of the food chain. Horizontal method for the detection and enumeration of Listeria monocytogenes and for Listeria spp.- Part 2: Enumeration Method

Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 ºC to 30 ºC).