



SHEEP BLOOD AGAR BASE (W/O BLOOD)

TM 1087

INTENDED USE

For improved haemolytic reactions of organisms

COMPOSITION

Ingredients	Gms\Ltr
Casein enzymic hydrolysate	14.000
Agar	12.500
Sodium chloride	5.000
Yeast extract	4.500
Peptic digest of animal tissue	4.500

PRODUCT SUMMARY AND EXPLANATION

Sheep Blood Agar Base was developed to meet the demand for an especially nutritious blood agar base which would permit the maximum recovery of organisms without interfering with their haemolytic reactions when used with sheep blood.

Alternative culture mediums, such as Blood agar base No. 2, can results in mixed haemolytic reactions for some *Streptococcus* spp. This is thought to occur due to the trace amounts of fermentable carbohydrates in yeast extract and the physiological difference between sheep and horse blood. Sheep Blood Agar Base with added sheep blood was developed to allow maximum recovery of organisms without interfering with their haemolytic reactions. Sheep Blood Agar Base was formulated to be compatible with sheep blood and give improved haemolytic reactions of organisms.

PRINCIPLE

Casein enzymic hydrolysate and yeast extract provide nitrogen, carbon, amino acids and vitamins. Peptic digest of animal tissue is the nitrogen source. Sodium chloride maintains the osmotic balance.

INSTRUCTION FOR USE

1. Dissolve 40.5 grams in 1000 ml distilled water.
2. Gently heat to boiling to dissolve the medium completely.
3. Sterilize by autoclaving at 15 psi (121°C) for 15 minutes.
4. Cool to 45-50°C and aseptically add 7% sterile sheep blood.
5. Mix well and pour into sterile Petri plates.



QUALITY CONTROL SPECIFICATIONS

Appearance of dehydrated Powder: Cream to yellow color, homogeneous free flowing powder

Appearance of prepared medium:

Basal Medium: Light amber color, clear to slightly opalescent gel.

On addition of 7% Sheep Blood: cherry red colored opaque gel.

pH: 7.3 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation at 35± 2°C for 18-24 hours with added 7% v/v sterile sheep blood

Microorganisms	ATCC	Inoculum (CFU)	Growth	Standard Recovery (%)	Haemolysis
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	≥ 70%	Beta
<i>Streptococcus pyogenes</i>	19615	50-100	Luxuriant	≥ 70%	Beta
<i>Streptococcus pneumoniae</i>	6303	50-100	Luxuriant	≥ 70%	Alpha

STORAGE & STABILITY

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°C and protect from direct Sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

REFERENCES

1. Pelczar M. J. Jr., Reid R. D., Chan E. C. S., 1977, Microbiology, 4th Ed., Tata McGraw-Hill Publishing Company Ltd, New Delhi.
2. Koneman E. W., Allen S. D., Janda W. M., Schreckenberger P. C., Winn W. C. Jr., 1992, Colour Atlas and Textbook of Diagnostic Microbiology, 4th Ed., J. B. Lippincott Company.
3. Spector W. S., (Ed.), 1961, Handbook of Biological Data, W. B. Saunder Company, Philadelphia and London.



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PRODUCT DATA SHEET

REF

Catalogue Number

QTY.

Quantity

LOT/
B. NO.

Lot / Batch Number



Best Before



Temperature Unit



Consult Instructions
for Use



QR
Code

GMP

Certification of
Good Manufacturing Practices



Manufacturer



IVD

For In Vitro
Diagnostics

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

***For professional use only.**

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