

MUELLER HINTON AGAR W/ %5 HORSE BLOOD + β -NAD

INTENDED USE:

MUELLER HINTON AGAR W/ %5 HORSE BLOOD + β -NAD is used for antimicrobial susceptibility testing of clinical isolates of fastidious organisms (pneumococci and other streptococci, Haemophilus, and Moraxella).

PRINCIPLE AND INTERPRETATION:

The major use of Mueller Hinton Agar is for antimicrobial susceptibility testing. Beef infusion and casein provide nitrogenous compounds, vitamins, carbon, sulphur and amino acids in Mueller Hinton Agar. Starch is added to absorb any toxic metabolites produced. This medium scores over Mueller Hinton Agar with heamoglobin over clarity, thereby enabling proper visualization of inhibition zones. It also has low levels of the nucleotide thymidine, which allows testing of trimethoprim / sulphamethoxazole.

COMPOSITION:

Ingredients	Gr/Liter
Meat infusion	2 gr
Casein hydrolysate	17,5 gr
Starch	1,5 gr
Agar	17 gr
B-Nad	20 mg
Horse Blood	50 mL

***Formula adjusted, standardized to suit performance parameters

pH: 7,3 \pm 0,2

PRECAUTIONS:

For professional use only. Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

TEST PROCEDURE:

Inoculation: Surface, inoculum as described by N.C.C.L.S.

Incubation: As recommended by methodology for particular organisms and antibiotics by NCCLS.

QUALITY CONTROL:**1.Sterility Control:**

Incubation 48 hours at 30-35°C and 72 hours at 20-25°C: NO GROWTH

2.Physical/Chemical Control

pH: 7,3 \pm 0,2

Apperance: Red

3.Microbiological Control: Incubation at 30-35 °C during 24 h

Microorganism	Inoculum (CFU)	Results	
		Growth	Reaction
Streptococcus pneumoniae ATCC 6305	10-100	Good	Good
Staphylococcus aureus ATCC 25923	10-100	Good	Good

STORAGE CONDITIONS AND SHELF LIFE:

Store the prepared medium at 2 - 12°C. Use before expiry date on the label. Do not use beyond stated expiry date.

DISPOSAL:

Incubated prepared medium may contain active bacteria and micro-organisms. Do not open infected medium. Infected plate should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.

PACKAGING:

Katalog Number: 02101

Packaging: Single wrap

Content: 10 plates/each package

REFERENCES:

1. Clinical and Laboratory Standards Institute (formerly NCCLS). 2006. Approved Standard: M2-A9. Performance standards for antimicrobial disk susceptibility tests, 9th ed. Clinical and Laboratory Standards Institute, Wayne, Pa.
2. Bauer, A.W., W.M.M. Kirby, J.C. Sherris, and M. Turck. 1966. Antibiotic susceptibility testing by a standardized single disk method. Am. J. Clin. Pathol. 45:493-496.
3. Ryan, K.J., F.D. Schoenknecht, and W.M.M. Kirby. 1970. Disc sensitivity testing. Hospital Practice 5:91-100.
4. Ericsson, H.M., and J.C. Sherris. 1971. Antibiotic sensitivity testing. Report of an international collaborative study. Acta Pathol. Microbiol. Scand. Sec. B, Suppl. 217.
5. Clinical and Laboratory Standards Institute. 2006. Performance standards for antimicrobial susceptibility testing; fifteenth informational supplement, M100-S16 (M2). Clinical and Laboratory Standards Institute, Wayne, Pa.



Aseptic Sterile



Batch Code



Catalogue Number



Negative Controls



Positive Controls



Use by



Temperature
Limitation



Do not reuse



Contains sufficient
for <n> tests



Look at user manual



Manufacturer