

For sensitivity tests on antibiotics and sulfonamides and for primary isolation of Neisseria and other pathogens from clinical samples.

Formula in g/L

Beef extract	2,00	Starch.....	1,50
Acid Casein Peptone	17,50	Agar	17,00

Final pH at 25°C: 7,4 ± 0,2

Principle:

Mueller Hinton LAB-AGAR™ together with Mueller Hinton Broth (ref. PS 15), is used for testing the antimicrobial susceptibility of rapidly growing aerobic organisms from clinical samples.

The medium can be used with complete confidence because it is rich in nutrients, able to grow fastidious organisms. The use of a medium with suitable growth characteristics is essential to test the susceptibility of microorganisms to antibiotics. It is also recommended for testing most commonly encountered aerobic and facultative anaerobic bacteria.

Beef extract and acid casein peptone (H) provide nitrogen, vitamins, minerals and amino acids for growth. The starch absorb any toxic metabolites produced.

The blood mixture should be chocolate by heating to 80°C for 10 minutes if Neisseria development is desired.

Preparation: suspend 38 grams of the medium one liter of distilled water. Mix well and dissolve by heating with frequent agitation until complete dissolution. Sterilize in autoclave at 121°C for 15 minutes. Cool to 45 or 50 °C, mix well and pour into Petri dishes.

Procedure:

- ★ Mueller Hinton LAB-AGAR™ can be used to cultivate Neisseria specimens, the recommended incubation of plates being at a temperature 35°C ± 2°C in a CO₂ atmosphere for 18-24 hours
- ★ It has become the standard medium for the Baures Kirby method and its performance is specified by the CLSI.

Storage / Shelf life

- ★ Once opened keep powdered medium closed to avoid hydration at 2 - 30°C
- ★ The expiration date is indicated on the label.

Microbiological test

The following results were obtained in the performance of the medium from type cultures after incubation at a temperature of 35±2°C and observed after 18-24 hours

Microorganisms	Growth
Escherichia coli ATCC 25922	Good
Enterococcus faecalis ATCC 29212	Good
Staphylococcus aureus ATCC 25923	Good
Pseudomonas aeruginosa ATCC 27853	Good

Packaging: 500 g

