

Mueller Hinton Agar BAC
Agar Mueller Hinton BAC
Gélose Mueller Hinton BAC

Taric code: 13023100

SPECIFICATIONS:

Homogeneous, free flowing and Cream. If any changes physically, discard product.
Concentration of use 38 gr/liter
Appearance Amber slightly opalesc.

PREPARATION:

Suspend 38 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Dispense into appropriate containers and sterilize in autoclave at 121°C for 15 minutes. Cool to 45 or 50°C and add defibrinated blood if desired. The blood mixture should be chocolate by heating to 80°C for 10 minutes if Neisseria development is desired. DO NOT OVERHEAT. To remelt the cold medium, heat as briefly as possible. The prepared medium should be stored at 8-15°C. The color is amber, slightly opalescent without blood and red with blood.
Once opened avoid hydration

USES:

MUELLER HINTON AGAR, together with Mueller Hinton Broth, 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 infusion and Acid Casein peptone (H) provide nitrogen, vitamins, minerals and amino acids essential for growth. The starch absorbs any toxic metabolites produced. Bacteriological agar is the solidifying agent.

Mueller Hinton Agar can be used to cultivate Neisseria specimens, the recommended incubation of plates being at a temperature of 35 ± 2°C in a CO₂ atmosphere for 18 – 24 hours.

It has become the standard medium for the Bauer Kirby method and its performance is specified by the NCCLS.

FORMULA IN g/l

| | | | |
|-------------------------|-------|----------------------|-------|
| Acid Casein Peptone (H) | 17.50 | Starch | 1.50 |
| Beef Infusion | 2.00 | Bacteriological Agar | 17.00 |

Final pH 7.4 ± 0.2 at 25°C

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 | Ampicillin 10 µg | Tetracycline 30 µg | Gentamicin 10 µg | Polymyxin B 300 µg | Sulfamethoxazole 1.25 µg Trimethoprim 23.75 µg |
|--|---------------------|-----------------------|---------------------|-----------------------|---|
| <i>Escherichia coli</i> ATCC 25922 | 15-20 | 18-25 | 19-26 | 12-16 | 24-32 |
| <i>Staphylococcus aureus</i> ATCC 25923 | 24-35 | 19-27 | 19-27 | 7-13 | 24-32 |
| <i>Enterococcus faecalis</i> ATCC 29212 | | | | | 16-23 |
| <i>Pseudomonas aeruginosa</i> ATCC 27853 | | | 16-21 | | |

Diameter halo in mm according to NCCLS

Note:

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