Mueller Hinton Agar (MHA)

TN1162	500	g
TN1162-01	5	kg

Intended use

For use in the antimicrobial sensitivity test using the agar diffusion method.

Form

Powder

Color

Beige

Storage

Dry, tightly closed, at 10...30 °C.

Shelf life

3 years

Directions

Dissolve 38 g in 1 litre distilled water and autoclave at 121 °C for 15 minutes and pour plates.

With the addition of blood: Cool down the medium to 45-50 °C. Add 5-10 % defibrinated sheep or horse blood to the cooled base medium, mix carefully and pour plates.

Typical composition

Component	g/l
Beef, dehydrated infusion	2.0
Casein hydrolysate	17.5
Starch	1.5
Agar	17.0

Final pH at 25 °C

7.4 ± 0.2

Microbiological quality control

Incubation: aerobically, 16-24 h at 36 ± 1 °C

Staphylococcus aureus ATCC 29213

Antibiotic	Disk content	Target Inhibition zone diameter [mm]
Penicillin	1 Unit	12-18
Cefoxitin	30 µg	24-30
Gentamicin	10 µg	19-25
Tetracycline	30 µg	23-31

Enterococcus faecalis ATCC 29212

Antibiotic	Disk content	Target Inhibition zone diameter [mm]
Nitrofurantoin	100 µg	18-24
Imipenem	10 µg	24-30

Manufacturer: sifin diagnostics gmbh | Berliner Allee 317-321 | 13088 Berlin | Germany | T: +49 30 700 144-0 | F: +49 30 700 144-30 | info@sifin.de | www.sifin.de

Escherichia coli ATCC 25922

Antibiotic	Disk content	Target Inhibition zone diameter [mm]
Amoxicillin/ Clavulanic acid	20 µg / 10 µg	18-24
Ciprofloxacin	5 µg	29-37
Gentamicin	10 µg	19-26
Trimethoprim-Sulfamethoxazole	1.25 µg – 23.75 µg	23-29

Pseudomonas aeruginosa ATCC 27853

Antibiotic	Disk content	Target Inhibition zone diameter [mm]
Aztreonam	30 µg	23-29
Imipenem	10 µg	20-28
Ciprofloxacin	5 µg	25-33
Gentamicin	10 µg	17-23

with the addition of 5% sheep blood

Test strain	CFU / plate	Recovery rate in % test vs. inoculum *)	Appearance of colonies	Incubation
Streptococcus pyogenes ATCC 12344	10-100	≥ 70 %	ß-hemolysis around the colonies	aerobically, 16-20 h at 36 ± 1 °C
Streptococcus pneumoniae ATCC 6303	10-100	≥ 70 %	α-hemolysis	microaerophilic, 16-20 h at 36 ± 1 °C

*) Reference medium used: Blood Agar
A recovery rate of e.g. ≥ 70 % corresponds to a productivity ratio of $P_R \geq 0.7$.

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