

Technical Data Sheet

CE MUELLER-HINTON Broth

Ordering number: 1.10293.0500

Media proposed by MUELLER and HINTON (1941) for testing the sensitivity of clinically important pathogens towards antibiotics or sulfonamides.

These culture media comply with the requirements of the WHO (1961, 1977) and DIN Norm 58930.

MUELLER-HINTON broth is employed for the determination of the MIC in serial dilution tests.

IVD in vitro diagnosticum - For professional use only

Mode of Action

The composition of the culture media provide favorable growth conditions, the media are almost totally devoid of sulfonamide antagonists.

Typical Composition

Meat infusion	2.0 g/l
casein hydrolysate	17.5 g/l
starch	1.5 g/l

Preparation

Suspend 21 g/litre, dispense into test tubes, autoclave (15 min at 121 °C).

pH: 7.4 ± 0.2 at 25 °C.

The prepared broth is clear and yellowish.

Experimental Procedure and Evaluation

Carry out the sensitivity or resistance test as directed. Incubation for 24 h at 35 °C aerobically.

Storage

Usable up to the expiry date when stored dry and tightly closed at +15 to +25° C. Protect from light.

After first opening of the bottle the content can be used up to the expiry date when stored dry and tightly closed at +15 to +25 °C.

The broth is stable for 2 weeks at 2-8 °C.

Specimen

e.g. Isolated bacteria from urine.

Clinical specimen collection, handling and processing, see general instructions of use.

Quality Control

Control Strains	ATCC #	Incubation	Expected Results
<i>Escherichia coli</i>	25922	24 h at 35 °C	Growth good / very good
<i>Staphylococcus aureus</i>	25923	24 h at 35 °C	Growth good / very good
<i>Pseudomonas aeruginosa</i>	27853	24 h at 35 °C	Growth good / very good
<i>Enterococcus faecalis</i>	33186	24 h at 35 °C	Growth good / very good
<i>Bacillus subtilis</i>	6633	24 h at 35 °C	Growth good / very good (Antagonist test!)
<i>Streptococcus pyogenes</i>	12344	24 h at 35 °C	Growth good / very good
<i>Streptococcus pneumoniae</i>	6301	24 h at 35 °C	Growth fair / good
<i>Listeria monocytogenes</i>	19118	24 h at 35 °C	Growth fair / good

Please refer to the actual batch related Certificate of Analysis.

Literature

BAUER, A.W., KIRBY, W.M.M., SHERRIS, J.C., a. TURCK, M.: Antibiotic susceptibility testing by a standardized single disk method. - Amer. J. Clin. Pathol., 45; 493-496 (1966).

DIN Deutsches Institut für Normung: Methoden zur Empfindlichkeitsprüfung von bakteriellen Krankheitserregern (außer Mycobakterien) gegen Chemotherapeutika. Agar-Diffusionstest. - DIN 58940.

ERICSSON, H.M., a. SHERRIS, J.C.: Antibiotic Sensitivity Testing. Report of an International Collaborative Study. - Acta path. microbiol. scand., B. Suppl., 217; 90 pp (1971).

JENKINS, R.D., STEVENS, S.L., CRAYTHORN, J.M., THOMAS, T.W., GUINAN, M:E., a. MATSEN, J.M.: False susceptibility of enterococci to aminoglycosides with blood-enriched Mueller-Hinton agar for disk susceptibility testing. - J. Clin. Microbiol., 22; 369-374 (1985).

MUELLER, H.J., a. HINTON, J.: A protein-free medium for primary isolation of the Gonococcus and Meningococcus. - Proc. Soc. Expt. Biol. Med., 48; 330-333 (1941).

World Health Organization: Standardization of methods for conducting microbic sensitivity tests (Technical Report Series No. 210, Geneva 1961).

World Health Organization: Requirements for antibiotic susceptibility tests. I. Agar diffusion tests using antibiotic susceptibility discs. (Technical Report Series No. 610, Geneva 1977).



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Ordering Information

Product	Cat. No.	Pack size
MUELLER-HINTON-Broth	1.10293.0500	500 g

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