

MAST® Culture Media and Supplements

Technical Information Sheet

Product Code DM 171



Mueller Hinton Broth

A standardised liquid medium for susceptibility testing.

1. Description

MAST Mueller Hinton Broth is a liquid version of Mueller Hinton Agar (DM170) for the performance of broth dilution susceptibility tests. These are often carried out on slow growing organisms e.g. anaerobes, for which the disc diffusion test is unreliable. They may also be used when a comparison is needed of the antibiotic susceptibility of bacteria in broth and agar¹

e.g. in regression line analysis. The medium contains low levels of sulphonamide antagonists as recommended for the original agar formulation." Mueller Hinton Broth is a highly nutritious medium and supports the growth of fastidious bacteria. The presence of starch in the medium improves the growth of neisseria and some haemolytic streptococci.^{3,4}

2. Technical Formula*

Formula	grams per litre
Casein hydrolysate, acidic	8.0
Starch	2.0
Heart extract paste	3.0
pH approx.7.4	

3. Directions

1. Suspend by swirling 24g of powder in 1 litre or the contents of the sachet in the stated volume of distilled or deionised water.
2. Distribute into final containers.
3. Autoclave at 121°C (15 p.s.i.) for 15 minutes. DO NOT OVERHEAT.

4. In Use

In performing broth dilution susceptibility tests it is vitally important to ensure that the organism under test is present as a pure culture.

5. References

1. Kluge Ronica M. *J Antimicrob Chemotherap.* 1980; **6**: 412-415
2. Mueller JH, Hinton J. *Proc Soc Exp Biol. And Med.* 1941; **48**: 330-333.
3. Gould RG, Kane LW, Mueller JH. *J Bact* 1944; **47**: 287-292.
4. Casman EP. *Am J Clin Path.* 1947; **17**: 281- 289.

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*Formulation may be modified to meet performance criteria

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