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## Thioglycollate Broth U.S.P.

**DM221.** For sterility testing as recommended by the United States Pharmacopoeia.

**Contents:** See pack label.

### Formulation\*

Material:	Concentration in medium:
Casein hydrolysate, enzymic	15.0 g/litre
Yeast extract	5.0 g/litre
D-Glucose	5.5 g/litre
Sodium chloride	2.5 g/litre
L-Cystine hydrochloride	0.5 g/litre
Sodium thioglycollate	0.5 g/litre
Resazurin	0.001 g/litre
Agar	0.75 g/litre
Final pH: 7.1 ± 0.2	

### Storage and shelf life

All dehydrated culture media containers should be kept tightly closed and stored in a dry place at 10 to 25°C until the expiry date shown on the pack label.

### Precautions

For *in vitro* diagnostic use only. Observe approved hazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet (available on request or via MAST website).

### Materials required but not provided

Standard microbiological supplies and equipment such as loops, MAST selective supplements, swabs, applicator sticks, incinerators and incubators, etc., as well as serological and biochemical reagents and additives such as blood.

### Procedure

1. Refer to pack label for quantities and volumes required. Prepare MAST Thioglycollate Broth USP (DM221) by suspending the powder in distilled or deionised water. For sachet packs, dissolve the entire contents of the sachet in the volume shown on the label.
2. Boil to dissolve the agar, mix well and distribute into suitable final containers.
3. Autoclave at 121°C (15 p.s.i.) for 15 minutes.
4. Resazurin is an oxidation-reduction indicator so reboil before use if more than one third of the column has turned pink on storage. Do not reheat more than once.
5. Inoculate and incubate for 18 to 24 hours at 35 to 37°C.

### Interpretation of results

After incubation record growth of organisms, indicated by turbidity in the medium and proceed as instructed in the method of use.

### Quality control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate expected performance. Do not use the product if the result with the control organism is incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain.

Test Organisms	Result
<i>Enterococcus faecalis</i> ATCC® 29212	Growth
<i>Pseudomonas aeruginosa</i> ATCC® 27853	Growth
<i>Clostridium perfringens</i> ATCC® 13124	Growth
<i>Bacteroides fragilis</i> ATCC® 25285	Growth

### References

Bibliography available on request.