

I.U.T.M. MEDIUM

Medium for mycobacteria cultivation, isolation and sensitivity test.

TYPICAL FORMULA (g/600 ml)

Asparagine	3.6
Monopotassium Phosphate	2.5
Magnesium Sulfate	0.24
Magnesium Citrate	0.6
Malachite Green	0.4

DIRECTIONS

Suspend 7.3 g of powder in 600 ml of distilled or deionized water containing 12 ml of glycerol (code 80021) and boil with constant agitation.

Sterilize in autoclave at 121 °C for 15 minutes.

Cool to 45-50 °C.

Aseptically add the sterile base to 1 liter of an uniform suspension of fresh eggs prepared under aseptic conditions.

Swirl gently to avoid introducing air into the suspension.

Dispense into sterile screw cap tubes or bottles and arrange in a slanted position.

Place in a water bath or in an autoclave at 85 °C for 45 minutes to coagulate the medium.

DESCRIPTION

I.U.T.M. MEDIUM is indicated for cultivation, isolation and sensitivity test of mycobacteria.

TECHNIQUE

See appropriate references for specific procedures.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: medium to dark green-blue.

Prepared medium

Appearance: opaque, smooth slants.

Color: pale green.

Incubation conditions: 36 ± 1°C, under CO₂, for up to 3 weeks.

Microorganism	ATCC	Growth
<i>Escherichia coli</i>	25922	partial inhibition
<i>Klebsiella pneumoniae</i>	13883	good
<i>Staphylococcus aureus</i>	25923	none
<i>Streptococcus pyogenes</i>	19615	none

PERFORMANCE AND LIMITATIONS

Some factors responsible for unsuccessful cultures are:

- the specimen is not representative of the infectious material, i.e. saliva instead of sputum;
- gross contamination interfere with the growth of mycobacteria;
- proper aerobic and increased CO₂ tension are not provided during incubation.

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.

Store prepared tubes at 2-8 °C.



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REFERENCES

1. Nolte, F.S., and B. Methcock. (1995) . Mycobacterium, p. 400-437.
2. Musser, J.M. (1995). Antimicrobial resistance in mycobacteria: molecular genetic insights. Clinical Microbiology Reviews **8**: 496-514.

PRESENTATION









Product	REF	
I.U.T.M. MEDIUM (41.0 l)	610169	500 g
I.U.T.M. MEDIUM (8.2 l)	620169	100 g

TABLE OF SYMBOLS

LOT Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests	IVD <i>In Vitro</i> Diagnostic Medical Device
REF Catalogue number	 Fragile, handle with care	 Use by	 Temperature limitation	 Keep away from heat source



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