

CM 20619 – DUBOS OLEIC BROTH BASE

INTENDED USE

For cultivation of Mycobacterium tuberculosis.

PRODUCT SUMMARY AND EXPLANATION

Tuberculosis remains a major global public health problem worldwide. Mycobacterium tuberculosis, the causative agent of tuberculosis in man, is carried in airborne particles known as droplet nuclei that are generated when patients with pulmonary tuberculosis cough. Infections occur when a susceptible person inhales the droplet nuclei containing the bacterium. Dubos Oleic Broth Base is recommended by Dubos and Middlebrook for the primary isolation and subsequent cultivation of the tubercle bacilli. On comparative studies of various media, Dubos Oleic Agar Base was found to be superior to other media for the primary isolation of Mycobacteria. Mycobacteria grow very rapidly when inoculated in a broth media and therefore preliminary culture of all the test samples in a broth media is recommended.

COMPOSITION

Ingredients	Gms / Ltr
Tryptone	0.500
L-Asparagine	1.000
Monopotassium phosphate	1.000
Disodium phosphate	2.500
Ferric ammonium citrate	0.050
Magnesium sulphate	0.010
Calcium chloride	0.0005
Zinc sulphate	0.0001
Copper sulphate	0.0001

PRINCIPLE

The medium consists of tryptone and L-asparagine as sources of nitrogen. The phosphates (together with calcium chloride) buffers the media as well as serve as sources of phosphates. Magnesium sulphate, zinc sulphate, copper sulphate and ferric ammonium citrate provide trace metals and sulphates.

INSTRUCTION FOR USE

Dissolve 1 grams in 180 ml purified/distilled water.

Heat if necessary to dissolve the medium completely.

Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

Cool to 45-50°C and aseptically add 20ml of sterile Oleic Albumin Supplement and 5000 to 10000 units of Penicillin.

Mix well and dispense in sterile tubes.

QUALITY CONTROL SPECIFICATIONS



Appearance of Powder	: Off-white to beige homogeneous free flowing powder.
Appearance of prepared medium	: Light amber coloured, clear to slightly opalescent solution with a fine precipitate.
pH (at 25°C)	: 6.6 ± 0.2

INTERPRETATION

Cultural characteristics observed with added Oleic Albumin Supplement and 5000-10,000 units of Penicillin after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Mycobacterium avium	25291	50-100	Luxuriant	35-37°C	2-6 Weeks
Mycobacterium gordonae	14470	50-100	Luxuriant	35-37°C	2-6 Weeks
Mycobacterium kansasii	12478	50-100	Luxuriant	35-37°C	2-6 Weeks
Mycobacterium smegmatis	14468	50-100	Luxuriant	35-37°C	2-6 Weeks
Mycobacterium tuberculosis H37RV	25618	50-100	Luxuriant	35-37°C	2-6 Weeks

PACKAGING:

Inpacksizeof100 gm and 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL













Afteruse,prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Byham, 1950,Am. J. Clin. Pathol., 20:678
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4. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
5. Kent and Kubica, 1985, Public Health Mycobacteriology : A Guide For the Level III Laboratory, USDHHS, Center for Disease Control, Atlanta c.a.
6. Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Tenover F. C., (Ed.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.
7. Roberts A. H., Wallace R. J. and Erlich P., 1950, Am. Rev. Tuberc., 61:563

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP MedNet GmbH Bachstrasse 10 48163 Münster, Germany Authorized Representative	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*For LabUse Only

