INSTRUCTIONS FOR USE –

AGAR PLATES

DERMATOPHYTE TEST MEDIUM (DTM)

REF 1133

SPML manufacture and supply a range of Pre-prepared media for the culture of microorganisms such as bacteria yeasts and moulds. SPML offer a range of media pre-poured culture media to meet the needs of its customers across a range of industries that include Clinical, food, water, pharmaceutical, and many more.

The range of plates cover selective and non-selective media and plate sizes and are intended for the use by professional parties in the isolation of microbial organisms.

Intended Use

Dermatophyte Test Medium (DTM) is a selective and differential medium used for the detection and presumptive identification of dermatophytes from clinical and veterinary specimens.1 Because of the unavailability of one of the inhibitory agents, chlortetracycline, Dermatophyte Test Medium (DTM), Modified with Chloramphenicol is recommended as a substitute for the original DTM formation Members of the genera Trichophyton, Microsporum and Epidermophyton are the most common etiologic agents of these infections. Taplin et al. developed DTM as a screening medium for the selective isolation and detection of dermatophytes from clinical specimens.5 A combination of three antimicrobial agents (cycloheximide, chlortetracycline and gentamicin) inhibited bacteria and saprophytic yeasts and molds. Lack of availability of chlortetracycline in late 1992 resulted in the substitution of chloramphenicol for chlortetracycline. Dermatophytes are presumptively identified based on gross morphology and the production of alkaline metabolites, which raise the pH and cause the phenol red indicator to change the color of the medium from yellow to pink to red.3-5 Taplin et al. reported the medium (withlortetracycline) to be 97 to 100% accurate for identifying dermatophytes.

Micro Organism Reactions pH: 5.30 -5.70

Result, Colour of Colony	Organisms
Markedly to completely inhibited; If recovered white to green w/ or w/o black spores; cottony	Aspergillus niger
Growth;Off- white to yellow pasty colony	C.albicans
Growth; pink to red colony	Microsporum canis
Growth; pink to red colony	Trichophyton mentagrophytes
Inhibited	S.aureus

Technique

Using a sterile loop inoculate the medium with 4±5 colonies and Incubate plates at 22-25°C in an inverted position (agar side up) with increased humidity and tubes with caps loosened to allow air to circulate.

As methods and media preference may vary as to media types and test method due to jurisdictions, and personal preferences the customer should use the plates in accordance with their organisations stated methods and procedures however SPML product brochure does provide further product information The end user should however take into consideration that selective media should, therefore, be compared with specimens/samples cultured on nonselective media to obtain additional information and help ensure recovery of potential pathogens and other significant organisms.

PRECAUTIONS

IVD. **For professional use only.**

Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

Consult In house instructions to ensure correct application of product use is observed. Ensure GLP and aseptic handling procedures are followed, used plates should be treated as biohazards, and disposal of used product should be treated as such, and disposed of in accordance with local /national regulations.

STORAGE AND SHELF LIFE

On receipt, store plates in the dark at 2 to 8° C, in their original sleeve wrapping until just prior to use. Avoid freezing and overheating. The plates may be inoculated up to the expiration date (see package label) and incubated for the recommended incubation times.

Plates from opened stacks of 10 plates can be used for one week when stored in a clean area at 2 to 8° C.

QUALITY CONTROL

SPML undertake batch release for all media checking pH, sterility, Inhibition and enhancement testing of all media batches based on the EN12322:19991[1], M22-A3[2], and ISO11133[3],

For clinical purpose the product is CE marked in accordance with the requirements of 97/79/EC IVD Directive and registered with the Competent Authority MHRA in the United Kingdom.

SPML is ISO9001:2008 certified

FURTHER INFORMATION

For further information please contact your local SPML representative.

Saudi Prepared Media Laboratory Company Ltd
Telephone: +966 11 4767931, 11 4773697
FAX: +966 1 4778313
E-mail: media@spml.com.sa
Web Site: http://www.spml.com.sa

References.

[1] *EN 12322:1999 - In vitro diagnostic medical devices - Culture media for microbiology - Performance criteria for culture media.*

INSTRUCTIONS FOR USE –

SPMLSELECT

AGAR PLATES

CE

DERMATOPHYTE TEST MEDIUM (DTM)

REF 1133

[2] *Clinical and Laboratory Standards Institute. 2004. Approved standard: M22-A3, Quality control for commercially prepared microbiological culture. media, 3rd ed*

[3] *ISO11133 Microbiology of food, animal feed and water — Preparation, production storage and performance testing of culture media*

EC REP

Medical Device & QA Services Ltd (MDQAS),
Spring Court, Spring Road,
HALE. Cheshire. WA14 2UQ.
United Kingdom.
Tel: +44 (0) 845 527 5078, Fax: +44 161 903 9787
Email: info info@mdqas.com Web
Site: www.mdqas.com

Saudi Prepared Media Laboratory Company Ltd
‹Al Harath Bin Al Habab Street ٨٩٦٨
High-al Dubbath" Malaz"
Riyadh 11461
Kingdom Of Saudi Arabia

Symbols Definition

REF	Product Reference Number
IVD	For in vitro diagnostic use
	Do not use if damaged
STERILE	Sterile by Moist / Dry heat
NON STERILE	Non Sterile
	Single Use
	Manufacturer
LOT	Lot Number
	Bio hazardous material
CE	CE Mark – Against the European In Vitro Diagnostic Medical Device Directive 98/79/EC
	Storage temperature limitation
	Manufacture date
	Consult Instructions for use

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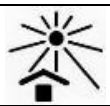	Avoid direct sunlight
	Keep Dry
	Expiration Date
EC REP	EU Representative
	WARNING – Consult IFU