

Mycosel Agar | Ready-to-use Media

a product by **Biomed MDX**

Effective Date: 15/11/2024

REF FP90M3001

Intended Use:

For the isolation and cultivation of dermatophytes.

Principle of the Procedure:

Mycosel agar is a selective growth medium employed to isolate pathogenic fungi, particularly dermatophytes, from specimens potentially contaminated with bacteria and other fungal species. The medium's base consists of soybean meal peptones and dextrose, providing essential nutrients for fungal proliferation. Selectivity is achieved by including cycloheximide, which inhibits the growth of most saprophytic fungi, and chloramphenicol, a broad-spectrum antibiotic that suppresses bacterial growth. This dual inhibition strategy allows pathogenic fungi, notably dermatophytes, to thrive while restricting the development of competing microorganisms. Further microbiological identification tests are necessary to confirm and diagnose the presence of microorganisms.

Product Summary:

Mycosel Agar is a specialized culture medium formulated to selectively isolate and cultivate dermatophytes. It is derived from Mycophil Agar, a nutrient-rich base, with the addition of cycloheximide and chloramphenicol to inhibit the growth of competing microorganisms, such as bacteria and saprophytic fungi. This selective action enhances the isolation and recovery of dermatophytes from various clinical specimens, making Mycosel Agar an essential tool in the mycological laboratory for the diagnosis of fungal infections.

Formulation* (PER LITER):

Papaic Digest of Soybean Meal	10.0g	Dextrose	10.0g
Cycloheximide	0.4g	Agar	15.5g
Chloramphenicol	0.05g		

pH 6.9 +/- 0.2

*Adjust and/or supplemental as required to meet performance criteria

Procedure

Materials Provided

90mm Mycosel Agar.

Materials Required But Not Provided

Ancillary culture media, reagents, and laboratory equipment as required.

Test Procedure

1. Inoculate and streak the specimen as soon as possible after it is received in the laboratory with an aseptic technique.
2. Incubate at $25 \pm 2^{\circ}\text{C}$ for 7 days.
3. Observe the result according to user requirements.
4. Dispose of all used reagents and contaminated materials as infectious waste. Laboratories must handle and dispose of all waste safely according to regulations.

Results

Examine for fungal colonies exhibiting typical microscopic and colonial morphology. Appropriate biochemical or immunological tests may be required for final identification

Quality Control

Inoculate representative samples with the following strains. Incubate the inoculated plates at $35 \pm 2^{\circ}\text{C}$ for 7 days. to allow colonies to develop on the medium.

Strains	ATCC®	Growth Results
<i>Candida albicans</i>	10231	Growth at 7 days
<i>Trichophyton mentagrophytes</i>	9533	Growth at 7 days
<i>Escherichia coli</i>	25922	Partial to complete inhibition
<i>Staphylococcus aureus</i>	25923	Complete inhibition
Uninoculated plate	-	No growth

Transportation:

Temperature fluctuations may occur during transportation. However, these fluctuations do not affect the performance, quality, or safety of the media.

Storage and Shelf Life:

Upon receipt, store plates at 2 to 8°C, in their original sleeve wrapping until just before 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.

Warning and Precautions:

For in vitro diagnostic use. For Professional Use Only. Do Not Reuse.
Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration.

Limitations of the Procedure

This medium is for laboratory use only and is not intended for the diagnosis of disease or other conditions. Identifications are presumptive and colonies should be identified using appropriate methods

Reference

1. Zimbardo, M. J., Power, D. A., Miller, S. M., Wilson, G. E., & Johnson, J. A. (Eds.). (2009). Difco™ and BBL™ manual: Manual of microbiological culture media (2nd ed.). Becton, Dickinson and Company.

Packaging Symbol

Symbol	Definition
	Catalogue number
	In Vitro Diagnostic Medical Device
	Batch code
	Date of manufacture
	Temperature limit
	Use-by date
	Keep away from sunlight
	Do not re-use
	Fragile, handle with care
	Consult instructions for use or consult electronic instructions for use
	Do not use if packaging damaged and consult instructions for use
	Manufacturer

Further Information:

For further information please contact your Biomed MDX representative.

 Biomed MDX Sdn Bhd
8, Jalan IAN 3, Industri Angkasa Nuri,
76100 Durian Tunggal, Melaka, Malaysia
 +6063370191
 <https://biomedmdx.com/>
 info@biomedmdx.com