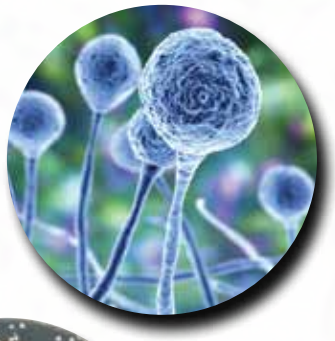
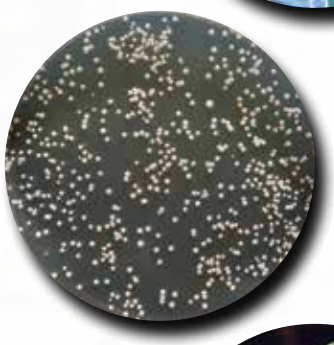
Mucormycosis

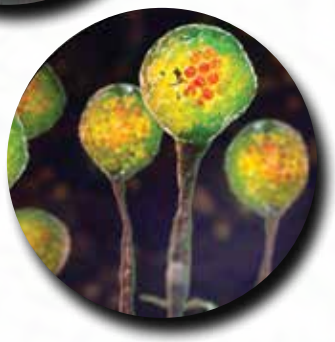
Fungal Infections in COVID-19 Patients

New Introduction

Mucormycosis Detection Kit, MUCO-*diagno*™ [K144] is a complete kit for clinicians to isolate the fungi responsible for Mucormycosis from the patient sample







HiMedia provides the range of exact media for isolating fungi from patient samples in COVID-19 pandemic and their antifungal profiling products

HiMediaLaboratories™
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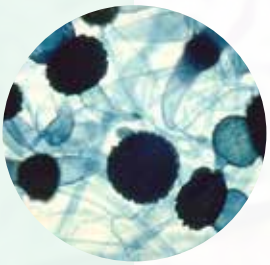
What is Mucormycosis?

Mucormycosis (sometimes called zygomycosis) is a serious but rare fungal infection caused by a group of molds called mucormycetes. These fungi live throughout the environment, particularly in soil and in decaying organic matter, such as leaves, compost piles, or rotten wood.

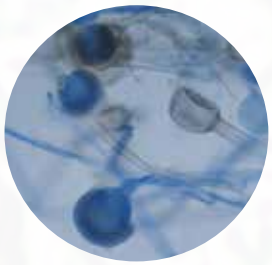
People get mucormycosis by coming in contact with the fungal spores in the environment. For example, the lung or sinus forms of the infection can occur after someone breathes in spores. These forms of mucormycosis usually occur in people who have health problems or take medicines that lower the body's ability to fight germs and sickness. Mucormycosis can also develop on the skin after the fungus enters the skin through a cut, scrape, burn, or other type of skin trauma.

Information Courtesy :
Centers for Disease Control and Prevention (https://www.cdc.gov/)



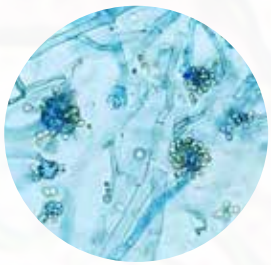
***Rhizopus* species**
Source : https://www.austincc.edu/microbugz/fungi.php

***Mucor* species**
Source : https://dx.doi.org/10.2500/ar.2016.7.0156

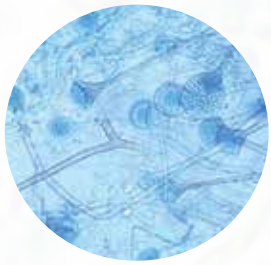


***Rhizomucor* species**
Source : https://dx.doi.org/10.1099/jmmcr.0.002931

***Syncephalastrum* species**
Source : https://dx.doi.org/10.4103/idoj.IDOJ_155_18



Cunninghamella bertholletiae
Source : https://dx.doi.org/10.1155/2015/703240



***Apophysomyces* species**
Source : https://dx.doi.org/10.1016/j.riam.2014.06.005

***Lichtheimia* species**
Source: https://dx.doi.org/10.4103/0971-7749.85806

Mucormycosis Detection Kit, MUCO-*diagno*™ [K144] is a complete kit for clinicians to isolate the fungi responsible for Mucormycosis from the patient sample

New Introduction

- "One-Stop" solution for isolation of Mucormycosis fungi
- HiFungal Transport Medium preserves fungal specimen till 72 hours
- The unique formulation of MP5476 and MP5477 supports rapid and selective growth
- Lockable plates ensure user's safety

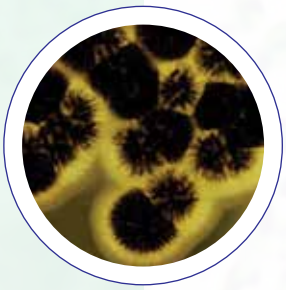
K144 Mucormycosis Detection Kit

New Introduction

MUCO-*diagno*™

Ready Prepared Media Provided in the Kit	
Code	**Product**
MP5476	Mucormycosis Selective Agar Plate New
MP5477	Candida Selective Agar Plate New
MS5478	HiFungal Transport Medium w/swab New

Media for Isolation of Mucormycosis Fungal Pathogens



Black mould growing on Sabouraud Dextrose Agar Plate [GM063/ MP063GT]

Ready Prepared Media for General Cultivation	
Code	**Product**
MP063GT	Sabouraud Dextrose Agar Plate (γ-irradiated) (Triple Pack)
MP096	Potato Dextrose Agar Plate

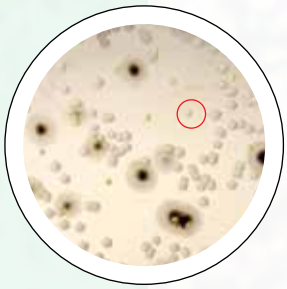
Ready Prepared Media for Selective Isolation	
Code	**Product**
MP1067	Sabouraud Chloramphenicol Agar Plate
MP5332	Sabouraud Dextrose Agar Plate w/ Chloramphenicol and Gentamicin
MP5386	Sabouraud Dextrose Agar Plate w/ Gentamicin
MP5334	Sabouraud Dextrose Agar Plate w/ Penicillin and Streptomycin
MP640	Rose Bengal Chloramphenicol Agar Plate

Ready Prepared Media for Antimicrobial Susceptibility	
Code	**Product**
MP1825	Mueller Hinton Agar Plate w/2% Glucose

White fungus growth on Potato Dextrose Agar [M096/GM096]

Dehydrated Media for General Cultivation	
Code	**Product**
GM063	Sabouraud Dextrose Agar, Granulated
MV063	Sabouraud Dextrose HiVeg™ Agar
MCD063	Sabouraud Dextrose HiCynth™ Agar
M096	Potato Dextrose Agar
GM096	Potato Dextrose Agar, Granulated
MCD096	Potato Dextrose HiCynth™ Agar
M842	Rose Bengal Agar Base
GM842	Rose Bengal Agar Base, Granulated
M1467	HiCrome™ OGYE Agar Base

Media for Isolation of Mucormycosis Fungal Pathogens



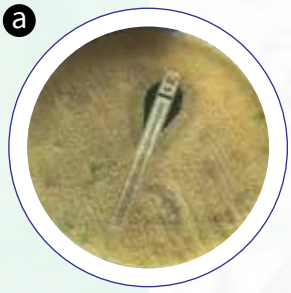
Candida sp. (white fungus) – Green colonies from COVID-19 patient sample growing on differential medium HiCrome™ OGYE Agar Base [M1467]

Dehydrated Media for Selective Isolation	
Code	**Product**
M1067	Sabouraud Chloramphenicol Agar
MV1067	Sabouraud Chloramphenicol HiVeg™ Agar
M1008	Chloramphenicol Yeast Glucose Agar
M640	Rose Bengal Chloramphenicol HiVeg™ Agar
MV640	Rose Bengal Chloramphenicol Agar
M1941	Potato Dextrose Agar w/ chloramphenicol

Dehydrated Media for Antimicrobial Susceptibility	
Code	**Product**
M1825	Mueller Hinton Agar 2% Glucose w/ Methylene blue
M2067	HiCrome™ Mueller Hinton Agar (For antifungal testing)

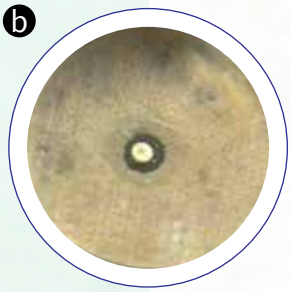
Antifungal Susceptibility Testing Resources for Mucormycosis Fungal Pathogens

a



Antifungal susceptibility testing of black fungus isolates from COVID 19 patient sample using
a. Antifungal Ezy MIC™ Strip [EM071]
b. Antifungal Single Disc [SD270] on M1825/ MP1825 Mueller Hinton Agar Plate w/2% Glucose

b

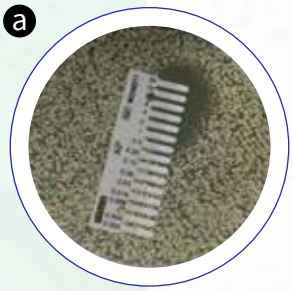


Wide range of Antifungal Susceptibility Testing Systems			
Antifungal Ezy MIC™ Strips			
Antifungal Agent	Concentration	Symbol	**Code & Pack Size***
Amphotericin B	Range in µg : 0.002 - 32 mcg/ml	AP	EM071-10ST to 150ST
Anidulafungin	Range in µg : 0.002 - 32 mcg/ml	AND	EM122-10ST to 150ST
Caspofungin	Range in µg : 0.002 - 32 mcg/ml	CAS	EM119-10ST to 150ST
Clotrimazole	Range in µg : 0.002 - 32 mcg/ml	CLO	EM144-10ST to 150ST
Fluconazole	Range in µg : 0.016 - 256 mcg/ml	FLC	EM072-10ST to 150ST
Flucytosine	Range in µg : 0.002 - 32 mcg/ml	FLU	EM118-10ST to 150ST
Griseofulvin	Range in µg : 0.002 - 32 mcg/ml	GRI	EM143-10ST to 150ST
* Pack Size : ST= Strip			

Antifungal HiComb™ MIC Test			
Antifungal Agent	**Concentration**	**Symbol**	**Code & Pack Size**
Amphotericin B	Range in µg-A : 32-0.25, B : 0.256-0.002	AP	MD071-1PK
Fluconazole	Range in µg-A : 256-2, B : 2.048-0.016	FLC	MD072-1PK
Ketoconazole	Range in µg-A : 32-0.25, B : 0.256-0.002	KT	MD074-1PK
Itraconazole	Range in µg-A : 32-0.25, B : 0.256-0.002	IT	MD073-1PK

Antifungal Susceptibility Testing Resources for Mucormycosis Fungal Pathogens

a



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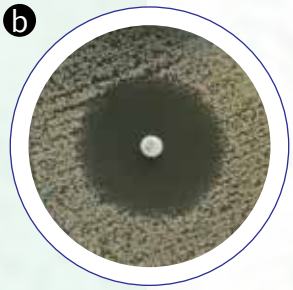


c

Antifungal HiComb™ MIC Strip, Modified			
Antifungal Agent	Concentration	Symbol	Code & Pack size
Amphotericin B	Range in µg/ml 0.002 - 32	AP	MDM071-1PK
Fluconazole	Range in µg/ml 0.016 - 256	FLC	MDM072-1PK
Voriconazole	Range in µg/ml 0.002 - 32	VRC	MDM086-1PK

Wide Range of Antifungal Susceptibility Testing Systems

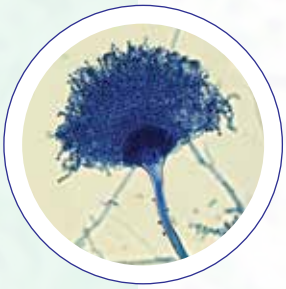
Antifungal Sensitivity Discs

Antifungal Agent	Concentration	Symbol	Code & Pack Size
Amphotericin-B	100 units	AP	SD111
Amphotericin-B	20 mcg	AP	SD233
Amphotericin-B	50 mcg	AP	SD270
Clotrimazole	10 mcg	CC	SD115
Fluconazole	10 mcg	FLC	SD114
Itraconazole	10 mcg	IT	SD221
Itraconazole	30 mcg	IT	SD276
Ketoconazole	10 mcg	KT	SD224
Ketoconazole	30 mcg	KT	SD275
Ketoconazole	50 mcg	KT	SD274
Miconazole	30 mcg	MIC	SD273
Miconazole	50 mcg	MIC	SD272
Nystatin	100 units	NS	SD025
Nystatin	50 mcg	NS	SD271

"*Packing : 1PK contains 5ct = 5x50 discs in plastic container,
1VL = contains 100 discs in vial, 5VL = 5x100 discs in vial,
5x50DS = 5 vials of 50 discs each, 5CT = contains 5x50 discs in blister pack"

Antifungal susceptibility testing of White fungus isolates from COVID-19 patient sample using
a. HiComb™ MIC Modified [MDM071]; b. Antifungal Single Disc [SD275];
c. Antifungal Ezy MIC™ Strip [EM071] on Mueller Hinton Agar Plate w/2% Glucose [M1825/ MP1825]

Presumptive Staining for Fungal Isolates



Stains for Fungi

Code	Product
S015	Lactophenol
S016	Lactophenol Cotton Blue
S017	Lactophenol Picric Acid
S031	Mayer's Mucicarmine Stain
S026	Picric Acid (Saturated, Aqueous)

Lactophenol cotton blue preparation of *Aspergillus* sp.

HiMedia Laboratories Pvt. Ltd.
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