



# MIC Test Strip Technical Sheet **Mould**

## Specimen

Blood, CSF, sterile body fluids and tissues, nasopharynx, respiratory, urinary and gastrointestinal tracts.

	<i>Aspergillus</i> spp.	<i>Fusarium</i> spp.	<i>Rhizopus</i> spp.	other species
<b>Medium</b>	R.P.M.I. Agar (Ref. 11509)			
<b>Inoculum</b>	0.5 McFarland (Ref. 80400)	1 McFarland (Ref. 80401)	1 McFarland (Ref. 80401)	
	Suspension of conidia and hyphae (mature growth 5-7 days) in saline with Tween 80.			
<b>Incubation</b>	35°C / moist (in loosely folded plastic bags) / ambient temperature / 24-72 hours, depending on the genus.			
	16-24 hours	35°C / 24-48 hours followed by room temperature for another 24-48 hours.	16-24 hours.	extend incubation time as needed and inspect plates daily for growth and presence of an inhibition ellipse.
<b>Evaluating the results</b>	No CLSI interpretive criteria are available for moulds, please consult the literature.			
<b>Reading precautions</b>	1. Practice plates interpretations at varying 1-3 days incubation to learn more about growth and endpoint appearance. 2. Interpret results after 16-24 hours, confirm at 48 hours if needed. Slow growers may need up to 72 hours. 3. Read the M.I.C. where the inhibition ellipse intersects the M.I.C. scale. For amphotericin B, read complete inhibition of growth and azoles at 80% inhibition. 4. Ignore filaments bending into the ellipse which may be caused by overgrowth in case of prolonged incubation.			

		Quality Control (M.I.C. µg/mL, 48 hours)			EUCAST INTERPRETATION M.I.C. Criteria (µg/mL)		Example of ANTIBIOGRAM  90 mm petri dish
		<i>C. parapsilosis</i> ATCC® 22019	<i>A. flavus</i> ATCC® 204304	<i>A. fumigatus</i> ATCC® MY A-3626	S	R	
<b>AMB</b>	AMPHOTERICIN B <i>A. fumigatus</i> <i>A. niger</i>	0.25-1	0.5-4	0.5-4	≤1 ≤1	>2 >2	✓
<b>FC</b>	FLUCYTOSINE	0.064-0.25	-	-			
<b>FLU</b>	FLUCONAZOLE	1-8	-	-			
<b>ITC</b>	ITRACONAZOLE <i>A. flavus</i> <i>A. fumigatus</i> <i>A. nidulans</i> <i>A. terreus</i>	0.064-0.25	0.25-0.5	0.25-2	≤1 ≤1 ≤1 ≤1	>2 >2 >2 >2	✓
<b>KE</b>	KETOCONAZOLE	0.032-0.125	-	-			
<b>POS</b>	POSACONAZOLE <i>A. fumigatus</i> <i>A. terreus</i>	0.032-0.25	0.06-0.5	-	≤0.12 ≤0.12	>0.25 >0.25	
<b>VO</b>	VORICONAZOLE <i>A. fumigatus</i>	0.016-0.064	0.5-4	0.25-1	≤1	>2	

## References

- CLSI M38-A2. Reference Method for Broth Dilution Antifungal Susceptibility Testing of Filamentous Fungi; Approved Standard-Second edition.
- CLSI M27-A3. Reference Method for Broth Dilution Antifungal Susceptibility Testing of Yeasts; Approved Standard - Third Edition.
- CLSI M27-S4. Reference Method for Broth Dilution Antifungal Susceptibility Testing of Yeasts; Fourth Informational supplement.
- EUCAST. Antifungal clinical breakpoint tables for interpretation of MICs. Version 7.0, valid from 2014-08-12.

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