

<b>B1040</b>		<b>FLUCONAZOLE TESTING MEDIUM</b>	
<b>Formula</b>			
<b>Ingredients :</b>		<b>gms/lit.</b>	
<b>Part B :</b> Dextrose			19.98
Potassium dihydrogen phosphate			1.99
Ammonium sulphate			4.99
L-Glutamine			0.58
Magnesium sulphate (anhydrous)			0.99
Sodium chloride			0.20
Calcium chloride			0.20
L-Lysine monohydrochloride			0.073
Valine			0.047
L-Arginine monohydrochloride	0.042		
L-Histidine			0.023
DL-Methionine	0.0189		
Tryptophan			0.02
Inositol	0.00397		
Boric acid			0.00099
Caclium d-pantothenic acid			0.00079
Nicotinic acid			0.00079
Pyridoxine hydrochloride			0.00079
Aneurine hydrochloride	0.00079		
Zinc sulphate			0.0014
p-Amino benzoic acid (PABA)	0.000395		
Riboflavin			0.000395
Ferric chloride			0.000395
Cupric sulphate	0.00012		
Biotin crystalline			0.000004
Folic acid			0.000395
L-Leucine			0.052
L-Isoleucine			0.052
Sodium molybdate			0.00047
Potassium iodide			0.0002
Threonine			0.0476
Final pH (at 25°C) : Self			
<b>Directions :</b>			
<p><b>Part A:</b> Suspend 2 gmsof Part A (Agar powder) in 100 ml distilled water, add 0.1 ml phosphate buffer to adjust the pH to 7.5. Heat to boiling to dissolve the agar particles completely and then sterilize by autoclaving at 10 lbs pressure (115°C) for 10 minutes.</p> <p><b>Part B:</b> suspend 29.34 gmsof Part B in 900 ml. Distilled water. Mix well, add 2 gms.of Sodium bicarbonate, after stirring. Sterilize by filtration. The medium can be kept at 4°C for two weeks. Complete medium is prepared by aseptically adding equal volume of molten Part A (previously cooled to 50°C) and Part B. Mix thoroughly and pour into sterile petriplates.</p>			

Refer disclaimer Overleaf

**TECHNICAL SHEET**

<b>Principle :</b>					
Fluconazole Testing Medium is a chemically defined medium specifically developed for the in-vitro testing of fluconazole by using Candida species. Inhibitory concentration values obtained by using this medium correlate well with the clinical outcome. The medium contains dextrose and a variety of amino acids, salts and vitamins to support the growth for Candida and other fungi. The inoculum size varies with different fungi. Candida species are grown in Sabouraud Dextrose Broth at 37°C for 16-18 hours and then diluted with normal saline to give following dilutions.					
Candida albicans 10 <sup>5</sup> /ml					
Candida tropicalis 10 <sup>5</sup> /ml					
Candida krusei 10 <sup>5</sup> /ml					
Candida guilliermondii 10 <sup>6</sup> /ml					
Candida parapsilosis 10 <sup>6</sup> /ml					
Candida pseudotropicalis 10 <sup>6</sup> /ml					
Surface inoculate the above diluted cultures and incubate at 28°C for 48 hours to determine MIC value of fluconazole. Dermatophytes are grown in Sabouraud Dextrose Agar at 28°C for 5-10 days. The mycelial growth is homogenized in 2ml of 0.85% saline to get a 65% light transmission. Inoculate the plates and incubate for about 5-6 days at 28°C. Check the control plates to ensure that all isolates have grown adequately and determine the Minimum Inhibitory Concentration (MIC).					
<b>QC Tests - (I) Dehydrated Medium</b>					
Colour :		Part A : Yellowish cream Part B : Cream			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		Self			
Colour (post autoclaving/heating) :		Light yellow			
Clarity (post autoclaving/heating) :		Slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 48 hrs. at 28-30°C.					
MICROORGANISM (ATCC )		MIC OF FLUCONAZOLE			
Candida albicans (10231 )		1.56 µg / ml			
<b>Precautions :</b>					
1. For Laboratory Use.					
2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.					
<b>Limitations :</b>					
1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.					
<b>Use :</b>					
For fluconazole susceptibility testing by using Candida species.					
<b>Storage :</b>					
Dehydrated medium and prepared medium – Between 2 to 8°C.					
<b>Packing :</b>					
500 gm bottle					
<b>Product profile:</b>					
	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1040</b>	29.30 of part B + 2.00 of part A	17.064 L (Part A)	self	nil	115°C / 10 minutes

**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARK LABORATORIES publications.

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