



## PRODUCT SPECIFICATION SHEET

### Fluid Sabouraud Medium (Sabouraud Medium, Fluid) (DM525)

#### Intended Use

Fluid Sabouraud Medium (Sabouraud Medium, Fluid) (DM525) is a sterility test medium recommended for mould and lower bacteria in pharmaceutical preparations.

#### Product Summary and Explanation

Fluid Sabouraud Medium is prepared based on the formulation described by Sabouraud<sup>(1)</sup> for the cultivation of yeasts, moulds, and aciduric microorganisms, particularly useful for dermatophytes. It is recommended for use as a sterility testing medium for moulds and lower bacteria. This mycological sterility testing medium is in accordance with USP<sup>(2)</sup> and the FDA<sup>(3)</sup> for the determination of fungistatic activity of pharmaceutical products to evade false sterility tests. The acid reaction of the medium is inhibitory to a large number of bacteria and makes the medium particularly well suited for cultivating fungi and acidophilic microorganisms.<sup>(4,5,6)</sup> This medium has shown to increase the isolation rate of *Candida albicans* in blood cultures.

#### Principles of the Procedure

Casein enzymic hydrolysate and peptic digest of animal tissue provide nitrogenous and carbonaceous compounds essential for growth of microorganisms. Dextrose is the energy source. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens.

#### Formula / Liter

Ingredients	Gms / Liter
Casein enzymic hydrolysate	5.00
Peptic digest of animal tissue	5.00
Dextrose	20.00
Final pH: 5.7 ± 0.2 at 25°C	
Formula may be adjusted and/or supplemented as required to meet performance specifications	

#### Precautions

1. For Laboratory Use only.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

#### Directions

1. Suspend 30 grams of the medium in one liter of distilled water.
2. Heat if necessary, to dissolve the medium completely.
3. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.
4. Mix well and dispense as desired.

#### Quality Control Specifications

Dehydrated Appearance	Cream to yellow homogeneous free flowing powder
Prepared Medium	Light amber coloured, clear solution without any precipitate
Reaction of 3.0% Solution	pH : 5.7 ± 0.2 at 25°C
Gel Strength	Not Applicable





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**Expected Cultural Response:** Cultural characteristics observed after an incubation at 25-30°C for 48-72 hours.

Sr. No.	Organisms	Results to be achieved	
		Inoculum (CFU)	Growth
1.	<i>Escherichia coli</i> ATCC 25922	50 - 100	good-luxuriant
2.	<i>Lactobacillus casei</i> ATCC 9595	50 - 100	good-luxuriant
3.	<i>Aspergillus brasiliensis</i> ATCC 16404	50 - 100	good-luxuriant
4.	<i>Candida albicans</i> ATCC 10231	50 - 100	good-luxuriant
5.	<i>Saccharomyces cerevisiae</i> ATCC 9763	50 - 100	good-luxuriant

The organisms listed are the minimum that should be used for quality control testing.

### Test Procedure

1. Refer to appropriate references details on sample collection, preparation and test methods.
2. For isolation of fungi from potentially contaminated specimens, a selective medium should be inoculated along with the non-selective medium.
3. Incubate at 25-30°C with increased humidity and examine at least weekly for fungal growth and should be held for 4-6 weeks before being reported as negative.

### Results

Refer to appropriate references and test procedures for results.

### Storage

Store the sealed bottle containing the dehydrated medium at 10 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light.

### Expiration

Refer to the expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

### Limitations of the Procedure

1. Some fungi may be inhibited by the acidic pH of the medium.
2. For identification, organisms must be in pure culture. Morphological, biochemical and/or serological tests should be performed for final identification.
3. Consult appropriate texts for detailed information and recommended procedures.

### Packaging

**Product Name :** Fluid Sabouraud Medium (Sabouraud Medium, Fluid).

**Product Code :** DM525

**Available Pack sizes :** 100gm / 500gm

### References

1. Sabouraud K., 1892, Ann. Dermatol. Syphilol, 3:1061.
2. The United States Pharmacopoeia, 2006, USP29/NF24, The United States Pharmacopoeial Convention, Rockville, MD
3. Food and Drug Administration, 1992, Bacteriological Analytical Manual, 7th Edition. F. D. A Washington, D.C.
4. Murray P. R., Baron E. J., Jorgensen J. H., Tenover F. C., Tenover P. C., (Eds.), 2003, Manual of Clinical Microbiology, 8th Ed., ASM, Washington, D.C.





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5. Ajello L., Georg L. K., Kaplan W. and Kaufman L., 1963, Laboratory Manual for Medical Mycology, DHEW Publication No. 994, US Govt. Printing Office, Washington, D.C.
6. Kavon Chung and Bennett, 1992, Medical Mycology, Lea and Febiger, Philadelphia, Pa.

### Further Information

For further information please contact your local MICROMASTER Representative.



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