

MMM (Mushroom Minimal Medium) Agar

Medium used for the cultivation of higher fungi.

• CONTENTS (Liter)

Dextrose	20.0 g
Magnesium Sulfate	0.5 g
Monopotassium Phosphate	0.46 g
Dipotassium Phosphate	1.0 g
Asparagine	2.0 g
Thiamine HCl	0.00012 g
Agar	20.0 g
Final pH = 6.5 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 44.0 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Mix well. Dispense in petri dishes.

• INTERPRETATION

MMM (Mushroom Minimal Medium) Agar is a medium used for the cultivation of higher fungi. Dextrose provides an energy source. Magnesium sulfate provides ions, essential electrolytes and minerals. Phosphates are buffering agents. Asparagine is a carbon source. Thiamine HCl provides nutrient of growth. Agar is the solidifying agent.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 25 ± 2°C for 18 - 48 hours for up to 7 days. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

Prepared medium

Appearance: slightly opalescent.

Color: light amber.

Incubation conditions: 25 ± 2°C / 18 - 48 hours for up to 7 days

Microorganism	ATCC	Growth
<i>Cordyceps militaris</i>	9787	good
<i>Ganoderma lucidum</i>	64251	good
<i>Plurotuso streatus</i>	38538	good

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

• REFERENCES

1. Yoo, Y. B., Park, Y. H. And Chang, K. Y. 1988. Induction of auxotrophic mutants and back mutation in *Pluerotus*. Res. Pep. Rural Development Administration (F. P. U. & M.) (Korea) 30 : 133-140.

• PACKAGE

Cat. No : MB-M1554 MMM (Mushroom Minimal Medium) Agar	500 G
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