

1% Tween 80-Corn Meat Agar Medium

Catalog : HB0236-4-250

1% Tween 80-Corn Meat Agar Medium is used for chlamyospore production by *Candida albicans*.

Approximate Formula:

Ingredients	gm/liter
Corn Meal infusion	7.0
Agar	15.0
Final pH6.0±0.2 at 25℃	
*Adjusted and/or supplemented as required to meet performance criteria.	

Directions:

Suspend 22.0g of the medium and 10.0g of Tween 80 in one liter of deionized or distilled water. Mix well and heat with frequent agitation to completely dissolve the powder. Dispense into flasks. Sterilize in the autoclave at 121℃ (15 lbs.) for 15 minutes.

Principle and Interpretation:

Corn Meal infusion provides nitrogen, vitamins, minerals and amino acids essential for growth. Agar is the solidifying agent. Corn Meal is valuable for the morphologic differentiation of many yeast-like organisms. It suppresses the vegetative growth of many fungi and at the same time stimulates the sporulation. Corn Meal Agar allows *Candida albicans* to produce chlamyospores, which is one of the best criteria for identification. The addition of 1% Tween 80 to Corn Meal Agar can greatly enhance the development of chlamyospores.

Appearance:

Dehydrated medium is a free-flowing yellowish-brown powder.

The prepared medium is a kind of yellowish-brown semi-transparent gel.

Precautions:

This medium is for laboratory use only. Dried medium which is past shelf life, caking or color variation cannot be used.

Storage conditions and Shelf life:

1% Tween 80-Corn Meat Agar Medium must be stored tightly capped in the original container at 5-30℃. The dehydrated medium has a shelf life of 3 years from date of manufacturing. Prepared medium may be stored, out of direct light at 2-8℃.

Quality control:

Prepare the culture medium as per label directions. Inoculate and incubate at 28±1℃ for 48-96 hours.

Microorganism	Strains Number	Inoculum (CFU)	Growth	Recovery	Remarks
<i>Aspergillus Niger</i>	ATCC 16404	20-200	Luxuriant	≥70%	Black spores, white hypha
<i>Saccharomyces Cerevisiae</i>	ATCC 9763	20-200	Luxuriant	≥70%	Cream colonies
<i>Candida Albicans</i>	ATCC 10231	20-200	Luxuriant	≥70%	Cream colonies

References:

1. Bridson, E.Y. The Oxoid Manual, 9th Edition. 2006. Oxoid Limited, Basingstoke.
2. Guidelines for Assuring Quality of Medical Microbiological Culture Media. 2nd edition 2012. Culture Media Special Interest Group, Australian Society for Microbiology.