

# Starch Casein Agar



Medium used for the isolation and cultivation of actinomycetes.

## • CONTENTS (Liter)

Starch, Soluble	10.0 g
Casein Powder	1.0 g
Agar	15.0 g
Final pH = 7.2 ± 0.2 at 25°C.	

## • PROCEDURE

Suspend 26.0 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

Starch Casein Agar is a medium used for the isolation and cultivation of actinomycetes. Starch is the carbohydrate source. Casein serves as nitrogen source. Agar is the solidifying agent.

## • TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 30 ± 2°C for 72 hours up to 7 days. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: cream to white.

### Prepared medium

Appearance: clear, slightly opalescent.

Color: white.

Incubation conditions: 30 ± 2°C / 72 hours up to 7 days

Microorganism	ATCC	Inoculum CFU	Growth
<i>Streptomyces albus</i>	3004	heavy	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. Wellington, E. M. H. Cross, T. (1983). Taxonomy of antibiotic producing Actinomycetes and new approaches to their selective isolation. In: "Progress in industrial microbiology?" Bushell, M. E. (eds.). Elsevier, Amsterdam. pp. 36.
2. Jensen, P. R., Dwight, R. and Finical, W. (1991). Distribution of Actinomycetes in near shore tropical marine sediments, *Journal of Applied Environmental Microbiology* 57, 1102-1108.
3. Weyland, H. (1969). Actinomycetes in North Sea and Atlantic Ocean sediments. *Nature* 223, 858.

## • PACKAGE

Cat. No : MB-S0610 Starch Casein Agar	500 G
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