

# Fish Meal Broth



Medium used for the cultivation and enumeration of Actinobacteria.

## • CONTENTS (Liter)

Starch, Soluble	10.0 g
Glucose	20.0 g
Soybean Meal	12.5 g
Fish Meal	12.5 g
Beef Extract	1.0 g
Yeast Extract	4.0 g
Sodium Chloride	2.0 g
Calcium Carbonate	2.0 g
Dipotassium Phosphate	0.25 g
Final pH = 7.2 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 64.25 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. Pour into tubes. Evenly disperse the precipitate when dispensing.

## • INTERPRETATION

Fish Meal Broth is a medium used for the cultivation and enumeration of Actinobacteria. Starch and glucose are the carbohydrate sources. Soybean meal, fish meal and beef extract provide nitrogen, carbon, amino acids and minerals. Yeast extract supplies B-complex vitamins which is required for bacterial growth. Sodium chloride maintains the osmotic balance. Calcium carbonate provides complex ionic sources that make the medium suitable for marine microbial flora. Dipotassium phosphate is the buffering agent.

## • TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 26 ± 1°C for 48 - 72 hours 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 with white precipitates

Color: amber

Incubation conditions: 26 ± 1°C / 48 - 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. Store prepared medium at 2 - 8°C.

- **REFERENCES**

1. Collee J. G., Fraser A. G., Marmion B. P., Simmons A., (Eds.), Mackie and McCartney, Practical Medical Microbiology, 1996, 14th Edition, Churchill Livingstone.
2. Lechevalier M. P., and Lechevalier H. A., 1974, Int. J. Syst.Bacteriol., 24:278.

- **PACKAGE**

Cat. No : MB-F0667 Fish Meal Broth	500 G
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