

# PRODUCT SPECIFICATION SHEET

## FAGI Broth (DM1287)

### Intended Use

FAGI Broth (DM1287) is recommended for detection of *Escherichia coli* in water samples.

### Product Summary and Explanation

*Escherichia coli* are commonly found in the intestines of animals and humans. Coliform organisms in water samples pose a major concern to the drinking water supply, the indicator organism being *E.coli*. Finding *E. coli* in a public water supply indicates that the disinfection process is not working. Many media such as MacConkey broth have been identified for detection of MPN. FAGI Broth has used in the detection of thermotolerant *E.coli*.<sup>(1)</sup> This medium is used for the detection of *E.coli* in water samples.

### Principles of the Procedure

FAGI Broth contains peptic digest of animal tissue which provides essential nutrients like nitrogen, amino acid for bacterial growth. Magnesium sulphate and Manganese sulphate provide the necessary mineral ions like magnesium, manganese which acts as cofactor of various enzymes.

### Formula / Liter

Ingredients	Gms / Liter
Peptic digest of animal tissue	3.00
Magnesium sulphate	0.20
Manganese sulphate	0.05
Final pH: 6.9 ± 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 3.2 grams of the medium in one liter of distilled water.
2. Heat if necessary to dissolve the medium completely.
3. Dispense in tubes or flasks as desired.
4. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.

### Quality Control Specifications

Dehydrated Appearance	Cream to yellow homogeneous free flowing powder
Prepared Medium	Yellow coloured clear solution
Reaction of 0.32% Solution	pH : 7.2 ± 0.2 at 25°C
Gel Strength	Not Applicable

**Expected Cultural Response :** Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Sr. No.	Organisms	Results to be achieved
		Growth
1.	<i>Escherichia coli</i> ATCC 25922	good-luxuriant

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

### Test Procedure

Refer appropriate references for specific test procedures.

### Results

Refer appropriate references and test procedures for interpretation of 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



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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. For identification, organisms must be in pure culture. Morphological, biochemical and/or serological tests should be performed for final identification.
2. Consult appropriate texts for detailed information and recommended procedures.

### Packaging

Product Name : FAGI Broth

Product Code : DM1287

Available Pack sizes : 100gm / 500gm

### References

1. S.Sharmili and P.Ramasami. Occurance and antibiotic resistance of thermophilic bacteria from Coramandal coast, Bay of Bengal, Tamilnadu, Bengal. Dept. of Biotechnology, Tamilnadu.
2. Further Information

For further information please contact your local MICROMASTER Representative.



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