

# PRODUCT INFORMATION

## Demi Fraser Broth Base

Cat. No. F06-102D



**ALPHA**<sup>™</sup>  
BIOSCIENCES

Date of Issue:  
10/01/17

### DESCRIPTION

A modification of Fraser Broth Base, this media was developed by Fraser and Sperber for the rapid detection of *Listeria* from food and environmental samples. The addition of ferric ammonium citrate allows for the selective enrichment of *Listeria spp.*

### PREPARATION

Mix 55 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil to dissolve completely. Distribute and autoclave at 121°C for 15 minutes. After cooling to room temperature, aseptically add 10mL of supplement (5% ferric ammonium citrate, 10mL/L of media).

### QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and light beige.
2. Visually the prepared medium is trace to slightly hazy and golden yellow, with a light precipitate possible.
3. Expected cultural response after 24-48 hours at 35°C.

#### Organism:

*Escherichia coli* ATCC® 25922  
*Listeria monocytogenes* ATCC® 7644  
*Listeria monocytogenes* ATCC® 15313  
*Staphylococcus aureus* ATCC® 25923

#### Formula\* per Liter:

Enzymatic Digest of Casein .....	10.0g
Beef Extract .....	5.0g
Yeast Extract .....	5.0g
Nalidixic Acid .....	0.010g
Esculin .....	1.0g
Monopotassium Phosphate .....	1.35g
Sodium Chloride.....	20.0g
Disodium Phosphate .....	9.6g
Acriflavine, HCl.....	0.0125g
Lithium Chloride .....	3.0g

**Final pH:** 7.2 ± 0.2 at 25°C

\* Grams per liter may be adjusted or formula supplemented to obtain desired performance.

#### Result:

Complete Inhibition  
Growth, Esculin (+)  
Growth, Esculin (+)  
Inhibition

### STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.