



Actero™ Demi Fraser Broth Product Information

Catalogue No.	Description
FCM-163	Actero™ Demi Fraser Broth (500 G)
FCM-162	Actero™ Demi Fraser Broth (2 KG)
FCM-161	Actero™ Demi Fraser Broth (10 KG)

INTENDED USE

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.*

Formula* per Liter:

Casein Digest Peptone	5.0g
Meat Peptone	5.0g
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
Acriflavin.....	0.012g
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.*

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 medium to 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	Result
<i>Escherichia coli</i> ATCC® 25922	Complete Inhibition
<i>Listeria monocytogenes</i> ATCC® 7644	Growth, Esculin+
<i>Listeria monocytogenes</i> ATCC® 15313	Growth, Esculin+
<i>Staphylococcus aureus</i> ATCC® 25923	Inhibition at 24 hours

Storage Instructions:

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 medium to light beige color.

