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Demi Fraser Broth Base with Ferric Ammonium Citrate
Product Information

Catalogue No.	Description
FCM-256	Actero™ Demi Fraser (5L) – EZ-Media Dry Bag – two ports
FCM-258	Actero™ Demi Fraser (20L) – EZ-Media Dry Bag – two ports

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 incorporation 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
Ferric Ammonium Citrate.....0.5g
Acriflavin.....0.012g
Lithium Chloride.....3.0g

Final pH: 7.2 ± 0.2 at 25°C

Storage Instructions: On receipt, store the EZ-Media Dry Bag at room temperature 2 - 32°C.

Handling: Once filled, do not handle the product by the ports as it may damage them.

PREPARATION:

Materials not provided: The required ancillary tubing and connectors can be purchased separately.

PREPARATION:

Materials not provided: The required ancillary tubing, connectors and filters (if necessary), can be purchased separately. A peristaltic pump or dilutor is required to fill and empty the bags.

Instructions: Observe aseptic techniques from media preparation through to dispensing. Remove the Actero™ EZ-Media Dry Bag from its packaging, unfold and lay it flat on the bench with tubing and caps facing up. There are two tubes on the Actero™ EZ-Media Dry Bag with red caps. The "in" port does not have a connector and the "out" port has a male connector to ensure sterility while the media is being prepared and later dispensed.

When ready to prepare the media, remove the cap from the "in" tube and connect the tubing from your pump or dilutor to the bag using the "in" port. You can use already sterile deionized water or attach a filter between your pump or dispenser to sterilize deionized water during filling. In the latter case, follow the filter's manufacturer's instructions.

Turn off your pump or dilutor when the corresponding volume of water (5L or 20L) has been added to the Actero™ EZ-Media Dry Bag. Remove the Actero™ EZ-Media Dry Bag tube from the ancillary tubing or filter nozzle and replace the cap on the tube end. Gently massage the Actero™ EZ-Media Dry Bag until the media is completely dissolved. The prepared media in the Actero™ EZ-Media Dry Bag can be stored on the bench for up to 7 days at room temperature.

When ready to use the prepared media, remove the cap from the "out" tube (with connector) on the Actero™ EZ-Media Dry Bag, aseptically connect it to your dispensing pump and dispense the appropriate volume into your sample bags. You can directly connect the dispensing pump tubing to the connector or use the female adapter available at Salus Scientific Inc. under catalog number FCLM-028.

To enrich *Listeria* spp. from a food sample, food ingredient or environmental swab, consult FDA:BAM, Health Canada Compendium of Methods or any other appropriate reference.

QUALITY CONTROL SPECIFICATIONS:

1. The powder is homogeneous, free-flowing, and beige.

2. Visually, the prepared medium is light to medium amber with no or slight precipitate.

Function	Control strains	Incubation	Method of control	Criteria	Expected results
Productivity	*Listeria monocytogenes* 4b ATCC 13932 +*Escherichia coli* ATCC 25922 + *Enterococcus faecalis* ATCC 19433	24 ± 2 h / 30 ± 1 °C	Qualitative	> 10 colonies on Agar Listeria according to Ottaviani and Agosti	Blue-green colonies with opaque halo
	Listeria monocytogenes 1/2a ATCC 35152 +*Escherichia coli* ATCC 25922 + *Enterococcus faecalis* ATCC 19433				
Selectivity	*Escherichia coli* ATCC 25922		Qualitative	Total inhibition (0) on TSA	-
	Enterococcus faecalis ATCC 19433		Qualitative	< 100 colonies on TSA	-

The performance test is in accordance with the current version of ISO 11133.