

## Fraser Supplement

### Intended Use

An antibiotic supplement recommended for the selective isolation, cultivation and identification of *Listeria monocytogenes* from foods, animals feed and environmental specimens.

### Summary

*Listeria monocytogenes* is a Gram-positive, non-spore forming, aerobic to facultatively anaerobic, rod-shaped bacterium which exhibits pathogenicity towards humans and other animals. Although not generally recognized as a food-borne pathogen, three recent outbreaks of listeriosis may indicate that this organism is becoming more prevalent as an agent of food-borne disease. Fraser supplements are based on the formulation of Fraser and Sperber. Fraser supplement recommended by ISO committee for selective isolation and enumeration of *Listeria monocytogenes* from food, animal feeds etc. This selective enrichment results in a higher detection rate of *Listeria monocytogenes*.

### Principle

The incorporation of Ferric ammonium citrate suppresses the growth of microorganisms without interfering with the growth of *Listeria monocytogenes*.

### Reagents / Contents

Composition per vial sufficient for 500 mL of medium:

Ferric ammonium citrate 250.00 mg

### Storage and Stability

1. Store the Microxpress® Fraser Supplement kit at 2°C-8°C, away from light.
2. Stability of the Microxpress® Supplement kit is as per the expiry date mentioned on the label.

### Directions

1. Rehydrate the contents of 1 vial aseptically with 2 mL sterile distilled water.
2. Mix well and aseptically add 2 vials of Fraser supplement to 1000 mL sterile Fraser Broth Base / Fraser Broth Base ISO.
3. Add 1 vial of Fraser Selective Supplement / Fraser Selective Supplement ISO.
4. Mix well before dispensing as desired.

### Interpretation of results

Refer to appropriate references and procedures for results.

### Quality Control

Cultural characteristics observed after an incubation of 40-48 hours at 35°C-37°C when added to Fraser Broth Base with Fraser selective supplement.

Organisms (ATCC)	Growth	Esculin hydrolysis
<i>Listeria monocytogenes</i> serotype 4b (19115)	Good	+
<i>Listeria monocytogenes</i> strain Li 23 (19114)	Good	+
<i>Enterococcus faecalis</i> (29212)	Inhibited	-
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> (25923)	Inhibited	-
<i>Escherichia coli</i> (25922)	Inhibited	-

**Key:** + = (Positive) Blackening of medium

- = Negative

### Remarks

1. Do not use cracked or broken vials.
2. Good laboratory practices and hazard precautions must be observed at all times.

### Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

### References

1. Data on file: Microxpress®, A division of Tulip Diagnostics (P) Ltd.

### Product Presentation:

Cat No.	Product description	Pack Size
204060360010	Media Selective Supplement	10 Vials

 Temperature limit	 Manufacturer	 Batch code	 Contains sufficient for <n> tests	 This way up
 Catalogue Number	 Consult Instructions for use	 Use-by date	 Date of Manufacture	 Media Supplements Dehydrated Culture Media Supplements for Microbiological applications

Revision: 1125/VER-03

### Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.