

## 7984 Fraser Broth Base Supplement

### Intended Use

Fraser Broth Base Supplement is used in the preparation of Fraser Broth Base and Demi-Fraser Broth Base for selective enrichment and detection of *Listeria* spp. in a laboratory setting. Fraser Broth Base Supplement is not intended for use in the diagnosis of disease or other conditions in humans.

### Principles of the Procedure

Differentiation of *Listeria* spp. from other bacteria present in food or water samples is aided by including Ferric Ammonium Citrate in the final medium. Since all *Listeria* species hydrolyze esculin, the addition of ferric ions to the medium will detect the reaction. A blackening of the medium by cultures containing esculin hydrolyzing bacteria is the result of formation of 6,7-dihydroxycoumarin that reacts with ferric ions..

For use in:

**7502 Fraser Broth Base:** used for the selective enrichment of *Listeria* spp. from food and environmental samples.

**7656 Demi-Fraser Broth Base:** used for the selective enrichment of *Listeria* spp. from food and environmental samples, Demi-Fraser Broth Base is a modification of Fraser Broth Base, developed by Fraser and Sperber, and used for the rapid detection of *Listeria* from food and environmental samples. In Demi-Fraser Broth Base, the nalidixic acid and acriflavine concentration have been reduced in accordance with AFNOR guidelines

### Formula: (per 5ml vial)

Ferric ammonium citrate .....250mg

### Precaution

1. For laboratory use only.

### Directions

1. Follow the base media instructions for the preparation of the culture medium.
2. One 5ml vial of 7984 Fraser Broth Base Supplement will supplement 500ml of Fraser Broth Base or 500ml of Demi-Fraser Broth Base.

#### **Fraser Broth Base:**

- a. Dissolve 55 g of the medium in one liter of purified water.
- b. Mix thoroughly.
- c. Autoclave at 121°C for 15 minutes.
- d. Aseptically add 10 mL (2 x 5ml vials) of Fraser Broth Base Supplement (7984).
- e. Mix thoroughly and aseptically dispense into sterile test tubes in desired volume.

#### **Demi-Fraser Broth Base**

- f. Dissolve 55 g of the medium in one liter of purified water.
- g. Mix thoroughly.
- h. Autoclave at 121°C for 15 minutes.
- i. Aseptically add 10 mL (2 x 5ml vials) of Fraser Broth Base Supplement (7984).
- j. Mix thoroughly and aseptically dispense into sterile test tubes in desired volume.

### Quality Control Specifications

**Appearance:** Homogenous liquid suspension, dark brown, clear, may have a yellow cast.

### Reconstitution Procedure

Fraser Broth Base Supplement is ready to use. Each 5ml vial supplements 500ml of Fraser Broth Base or 500ml of Demi-Fraser Broth Base.



**Storage**

Store sealed bottle containing the product at 2-8°C. If opened and not completely utilized, be certain that aseptic dispensing procedures are followed to maintain sterility of the supplement. Protect from contamination by keeping container tightly closed.

**Expiration**

Refer to expiration date stamped on the container. The supplement should be discarded if not sterile, or if appearance has changed from the original color. Expiry applies to supplement in its intact container when stored as directed.

**Limitations of the Procedure**

Refer to the product SDS for handling and disposal of this supplement.

**Packaging**

**Fraser Broth Base Supplement**

<b>Code No.</b>	<b>7984</b>	<b>10 x 5ml</b>
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**Technical Information**

Contact Acumedia Manufacturers, Inc. for Technical Service or questions involving dehydrated culture media preparation or performance at (517)372-9200 or fax us at (517)372-2006.