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## Microbiology

### FRASER Listeria Ammonium iron(III) Supplement

**Contents:** 10 vials Ammonium iron(III) citrate for preparation of 5 l half FRASER or 5 l Full FRASER

#### Mode of action

FRASER Listeria Supplement consists **ammonium iron(III) citrate** and a selective supplement.

The **ammonium iron(III) citrate** promotes the growth of the Listeria and, together with esculin, permits the  $\beta$ -D-glucosidase detection in Listeria.

The selective supplement is a mixture of acriflavine and nalidixic acid in a lyophilized form. It largely inhibits the growth of accompanying bacteria by a selective enrichment of Listeria.

#### Typical composition (per vial):

Ammonium iron(III) citrate 250 mg

#### Preparation

Suspend 27.5 g FRASER Listeria Selective Enrichment Broth (Base), in 500 ml demin. water and autoclave (15 min at 121 °C).

The content is dissolved in each original vial by adding sterile demin. water (about 1 ml).

#### Half FRASER Broth

To prepare half-concentrated FRASER broth, the contents of **1 vial of ammonium iron(III) citrate** and 1 vial of selective supplement are evenly mixed into 500 ml of sterile FRASER broth base after it has cooled to about 45–50 °C.

#### FRASER Broth

To prepare FRASER broth, the contents of **1 vial of ammonium iron(III) citrate** and 2 vial of selective supplement are evenly mixed into 500 ml of sterile FRASER broth base after it has cooled to about 45–50 °C.

#### Application

##### 1. Enrichment step

The half-concentrated FRASER broth is inoculated with sample material and incubated at 30 °C for 24 ± 3 hours. From this culture, a selective growth medium such as Oxford or PALCAM agar is inoculated.

##### 2. Enrichment step

From the first enrichment step, 0.1 ml is inoculated on to 10 ml FRASER broth for two incubations of 48 ± 3 hours at 35 °C or 37 °C. After each 24 hours period selective growth media such as Oxford and/or PALCAM agar are inoculated.

#### Ordering information

Cat. No.	Product	Package size
1.10398.0500	FRASER Listeria Selective Enrichment Broth (Base)	500 g
1.00093.0010	FRASER Listeria Selective Supplement	10 vial

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