

1.00092.0010

E.91000.9290

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 β -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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