



English (US)

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(NCM) Fraser Broth Base

Fraser Broth Base is used with Acriflavin, Nalidixic Acid, and Ferric Ammonium Citrate for the selective enrichment of *Listeria* spp. Fraser Broth Base is not intended for use in the diagnosis of disease or other conditions in humans.

Formulated according to MLG Appendix 1.09 (for the ISO 11290 formulation please use NCM0001). *Listeria monocytogenes*, described first in 1926 by Murray, Webb, and Swann, is an extensive problem in public health and food industries. This organism has the ability to cause human illness and death, particularly in immunocompromised individuals and pregnant women. Epidemiological evidence from outbreaks of listeriosis indicated the principle route of transmission is via the consumption of foodstuffs contaminated with *Listeria monocytogenes*. Implicated vehicles of transmission include turkey frankfurters, coleslaw, pasteurized milk, Mexican style cheese and pate.

Half Fraser (Demi Fraser) Broth Base is based on the formulation of Fraser and Sperber. This medium is used in rapid detection of *Listeria* from food and environmental samples. *Listeria* spp. grow over a pH range of 5.0 – 9.6, and survive in food products with pH levels outside these parameters. *Listeria* spp. are microaerophilic, Gram-positive, asporogenous, non-encapsulated, non-branching, short, motile rods. Motility is pronounced at 20°C. Identification of *Listeria* spp. is based on successful isolation of the organism, biochemical characterization, and serological confirmation.

Formula	Liter
Proteose Peptone	5.0 g/L
Tryptone	5.0 g/L
Beef Extract	5.0 g/L
Yeast Extract	5.0 g/L
Esculin	1.0 g/L
Disodium Hydrogen Phosphate	12.0 g/L
Potassium Dihydrogen Phosphate	1.35 g/L
Sodium Chloride	20.0 g/L
Lithium Chloride	3.0 g/L

Final pH: 7.2 ± 0.2 at 25°C

Formula may be adjusted and/or supplemented as required to meet performance specifications.

Preparation

1. Dissolve 57.4 g of the medium in one liter of purified water.
2. Mix thoroughly.
3. Autoclave at 121°C for 15 minutes. Cool broth to room temperature.
4. Aseptically add 2 vials of Ferric Ammonium Citrate Supplement (X211) or Fraser Broth Base Supplement (7984) and 10 mL of a filter sterilized solution containing 20 mg Nalidixic acid and 25 mg Acriflavin.

Product was previously known as Acumedia Product: 7626 Fraser Broth Base

Order Details

Product #	Product Description
NCM0066A	Fraser Broth Base, 500 g
NCM0066B	Fraser Broth Base, 5 kg
NCM0066C	Fraser Broth Base, 10 kg
NCM0066D	Fraser Broth Base, 25 kg (European only size)
NCM0066E	Fraser Broth Base, 50 kg (US only size)

Reference Material

7502 - Fraser Broth Base, Product Information Sheet [[English](#)] [[Portuguese](#)] [[Spanish](#)]

7502 - Fraser Broth Base, Safety Data Sheet [[Danish](#)] [[Dutch](#)] [[English](#)] [[EU English](#)] [[Finnish](#)] [[French](#)] [[German](#)] [[Italian](#)] [[Spanish, Mexico](#)] [[Swedish](#)]

7626 - Fraser Broth Base, Safety Data Sheet [[Danish](#)] [[Dutch](#)] [[English](#)] [[EU English](#)] [[Finnish](#)] [[French](#)] [[German](#)] [[Italian](#)] [[Spanish, Mexico](#)] [[Swedish](#)]

For additional information or questions about product SDS documents, please contact Neogen at SDS@neogen.com.

Please check with your local representative for availability of these products within your region.

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