

### Half Fraser Listeria Selective Supplement (iS47026)

A selective supplement recommended for isolation of *Listeria monocytogenes* from food samples.

Industry: Clinical / Food

#### Description

The Half Fraser Listeria Selective Supplement is incorporated into Listeria Enrichment Broth Base medium to form the Half Fraser Broth. This medium exploits the hydrolysis of esculin by all *Listeria* species, resulting in esculetin formation that reacts with iron ions, causing a blackening of the medium. Additionally, the inclusion of ferric ammonium citrate enhances the growth of *Listeria monocytogenes*. Nalidixic acid, and acriflavine from the supplement collectively inhibit the growth of accompanying flora capable of esculin hydrolysis.

#### Content per Vial

1 Vial for 500 ml of culture medium.

Ferric Ammonium Citrate 0.25 g

Nalidixic Acid 5.0 mg

Acriflavine Hydrochloride 6.25 mg

#### Directions

Add 5 ml of sterile distilled water into one vial, gently mixing for complete dissolution. Filter sterilize the solution and, under aseptic conditions, introduce it to 500 ml of sterile Fraser Listeria Selective Enrichment Broth Base, pre-cooled to 50 °C. Thoroughly mix and dispense the resulting solution into sterile tubes.

#### Storage

Store in a light-protected environment at -20°C.

#### Precautions

Note that acriflavine hydrochloride is light-activated, and its exposure to light may render it inhibitory to the growth of *Listeria*.