

# TECHNICAL DATA SHEET

Article No. 9442

Fraser Listeria Selective Supplement

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## SPECIFICATION

Sterile selective supplement for the isolation of *Listeria* species.

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## COMPOSITION (G/VIAL)

|                             |        |
|-----------------------------|--------|
| Sodium Nalidixate           | 0.0100 |
| Acriflavine.                | 0.0125 |
| Ammonium iron(III) citrate. | 0.2500 |

Reconstitute the original freeze-dried vial by adding

Sterile Distilled Water.....6 ml

Each vial is sufficient to supplement 500 ml of Fraser Broth (base) (Art. no. 9439).

10 vials with freeze-dried supplement per box.

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## DESCRIPTION

This supplement is added in Fraser broth (base) in order to obtain a selective complete medium. This medium is a modification of the UVM broth. It gives better results in the detection rate of *Listeria monocytogenes* in meat products and has the added advantage of only taking 3-4 days.

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## TECHNIQUE

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results. Reconstitute the vial with 6 ml of the sterile diluent in aseptic conditions and add it to 500 ml of sterilized broth base cooled to 50 °C. Do not overheat once supplemented. Pour the complete medium into tubes and inoculate. Incubate the tubes in aerobic atmosphere at 35 ±2 °C for 24-48 h.

Incubation times longer than those mentioned above or different incubation temperatures may be required, depending on the sample or the specifications. After incubation, the isolation is carried out on Oxford Selective Agar or any other selective agar for *Listeria* spp, observing any blackening of the medium due to esculin hydrolysis, typical for *Listeria* strains.

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Amtsgericht Stuttgart / HRA-Nr. 254140  
Persönlich haftende Gesellschafterin:  
Geyer Beteiligungsgesellschaft mbH  
Amtsgericht Stuttgart / HRB-Nr. 252035  
Geschäftsführer: Lutz-Alexander Geyer / Thomas Roth

## QUALITY CONTROL

- Physical/chemical control: Colour brownish  
pH at 25 °C
- Microbiological control: Add 1 vial to 500 ml of medium base. Do not heat once supplemented.  
Inoculate 30-300 CFU (productivity) 1.000-10.000 CFU (selectivity).  
Aerobiosis. Incubation at 35 ±2 °C, reading at 24-48 h.

| Microorganism                             | Growth    | Remarks |
|---|-----------|---------|
| <i>Listeria monocytogenes</i> ATCC® 13932 | Good      | None    |
| <i>Escherichia coli</i> ATCC® 25922       | Inhibited | None    |
| <i>Staphylococcus aureus</i> ATCC® 25923  | Inhibited | None    |
| <i>Listeria monocytogenes</i> ATCC® 35152 | Good      | None    |

Sterility control: Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: No growth.  
Check at 7 d after incubation at the same conditions.

## REFERENCES

- ATLAS, R.M. (1993) Handbook of Microbiological Media. CRC Press. Boca Raton. Florida.
- FRASER, J.A. & W.H. SPERBER (1988) Rapid detection of *Listeria spp.* In food and environmental samples by esculin hydrolysis. J.Food Prot. 51:762-765.
- ISO 11133:2014. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- ISO 11290 Standard (1996) Microbiology of food ad animal feeding stuffs - Horizontal method for the detection and enumeration of *Listeria monocytogenes* - Part 1: Detection Method.
- ISO 11290 Standard (1996) / Amd 1 (2004) Microbiology of food ad animal feeding stuffs - Horizontal method for the detection and enumeration of *Listeria monocytogenes* - Part 1: Detection Method- Amendment 1: Modification of the isolation media and the haemolysis test and inclusion of precision data.
- ISO 11290 Standard (1998) Microbiology of food ad animal feeding stuffs-Horizontal method for the detection and enumeration of *Listeria monocytogenes* - Part 2: Enumeration method.
- ISO 11290 Standard (1998) / Amd 1 (2004) Microbiology of food ad animal feeding stuffs-Horizontal method for the detection and enumeration of *Listeria monocytogenes* - Part 2: Enumeration method-Amendment 1: Modification of the enumeration media.
- McCLAIN, D. & W.H. LEE (1988) Development of a USDA-FSIS method for isolation of *Listeria monocytogenes* from raw meat and poultry. J.AOAC 71:660-664.
- VANDERZANT, C & D.F. SPLITTSTOESSER (1992) Compendium of methods for the microbiological examination of foods. APHA. Washington. DC.

## STORAGE

2-25 °C

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## SHELF LIFE

49 months from date of production.

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