TECHNICAL DATA SHEET

Article No. 9250

Listeria Half Fraser Listeria Selective Supplement

SPECIFICATION

Sterile selective supplement used for *Listeria* enrichment according to ISO 11290-1:2006.

COMPOSITION (G/VIAL)

Sodium nalidixate	0.0050
Acriflavine	0.0062
Ferric Ammonium 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.

DESCRIPTION/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 sterile diluent, pre-warmed to aprox. 37ºC and add to 500 ml of sterilized Fraser Broth (base) cooled to room temperature. Once into tubes or bottles, inoculate with the appropiate volume of sample or dilution. Incubate the tubes/bottles right side up aerobically at 35 ±2 ºC for 24-48 h.
(Incubation times longer than those mentioned above or different incubation temperatures may be required depending on the sample, on the specifications, etc.)
After incubation, subculture onto secondary selective culture media like Oxford medium, Palcam medium or ALOA. Enumerate all colonies on the surface of the agar. Presumptive isolation of *Listeria* ssp. must be confirmed by further microbiological and biochemical tests. *Listeria* strains cause PALCAM and Oxford media get dark.due to esculin hydrolysis. *Listeria* strains develop characteristic haloes on ALOA medium.

QUALITY CONTROL

- Physical/chemical control: Colour dark orange-brown
  pH at 25 °C
- Microbiological control: Prepare tubes. Inoculate: Practical range 100 ±20 CFU, min. 50 CFU (productivity). Aerobiosis. Incubation at 37 ±1 ºC, reading after 24 ±3 h.

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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

Microorganism	Growth	Remarks
Listeria monocytogenes ATCC® 13932	Good	None
Escherichia coli ATCC® 8739	Inhibited	None
Staphylococcus aureus ATCC® 35152	Inhibited	None
Mix of the control strains	Confirms	None

- Sterility control: Incubation 24 h at 30-35 ºC and 72 h at 20-25 ºC: No growth.
  Incubation 7 d at 32.5 ±2 ºC and 7 d at 22.5 ±2 ºC: No growth.

REFERENCES

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- 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

SHELF LIFE

49 months from date of production.

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