ALLIANCE BIO EXPERTISE

Reference: DSHB3159 **A.B.E. - Technical Data Sheet**

Product: **Listeria FDA FIL/IDF selective supplement**

Specification

Sterile selective supplement for *Listeria* spp. enrichment according to FDA /BAM (1995)

Presentation

	Packaging Details	Shelf Life	Storage
10 Freeze dried vials Vial with: 3 ± 0.01 g	23x60 mm glass vials, tag labelled, White plastic cap - 10 vials per box.	49 months	2-25 ºC

Composition

Compositon (g/vial)

Sodium Nalidixate.....0.020
Acriflavine..... 0.005
Cyclohexymide..... 0.025

Reconstitute the original freeze-dried vial by adding :
Sterile Distilled Water.....6 ml

Note : Each vial is sufficient to supplement 500 ml of medium Base: Buffered Enrichment Listeria Broth Base FDA/BAM 1995.

Description /Technique

Description:
Listeria FDA /BAM 1995 selective supplement is based on the formulation described by the standard 143:1990 IDF-FIL and FDA-BAM 1995 for the detection of *Listeria* species from food.

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 in aseptic conditions and add it to 500 ml of sterilized Buffered enrichment Listeria Broth base FDA/BAM 1995, cooled to 50ºC.
Do not overheat once suplemented.

Pour the complete medium into tubes and inoculate.
Incubate the tubes in aerobic atmosphere at 35 ± 2ºC for 24-48h.

Incubation times longer than those mentioned above or different incubation temperatures may be requied depending on the sample or the specifications.

After incubation, the isolation is carried out on appropriate Selective Agar for Listeria spp, like Oxford Medium, Palcam Medium or Ottaviani & Agosti Medium.

Enumerate all the colonies that have appeared onto the surface of the agar, observing any blackening of the medium due to esculin hydrolysis, typical for Listeria strains on Oxford or PALCAM Agar or the characteristic haloes on Ottaviani & Agosti Medium.

Presumptive isolation of *Listeria sp.* must be confirmed by further microbiological and biochemical tests.

Quality control

Physical/Chemical control

Color : Dark Orange - Brown -

Microbiological control

Reconstitute 1 vial as indicated in COMPOSITION; shake and dissolve completely

Add 1 vial to 500 ml of medium base. DO NOT HEAT once supplemented.

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Distribute the complete medium, cooled to 50 ºC, into 10 ml tubes

Incubate according instructions for complete medium indicated in COMPOSITION.

Aerobiosis. Incubation at 30 ± 1 ºC, read after 24 ±3h - 44 ±4h

Microorganism	Growth
Escherichia coli ATCC® 25922, WDCM 00013	Inhibited
L. monocytogenes ATCC® 13932, WDCM 00021	Good
L. monocytogenes ATCC® 35152, WDCM 00109	Good
Enterococcus faecalis ATCC® 19433, WDCM 00009	Inhibited

Sterility control

Add 5 ml of the sample to:
100 ml TSB and 100 ml Thioglycollate.
Incubation 48 h at 30-35 ºC and 48 h at 20-25 ºC: NO GROWTH.

Bibliography

HITCHINS, A.D. (1995) Listeria monocytogenes. FDA (Food and Drug Adminstrations) Bacteriological Analytical Manual. 8th ed. Revision A,1998(Revised Sep-26-2000).AOAC International, Gaithersburg,MD.USA.