

Reference: DSHB3080

A.B.E. - Technical Data Sheet

Product: Listeria UVM II Selective Suppl.

# **Specification**

A sterile selective enrichment supplement for the secondary enrichment of Listeria species.

#### Presentation

**Shelf Life** Storage **Packaging Details** 10 Freeze dried vials 49 months 22±0.25 x 55±0.5 mm glass vials, tag labelled, White 2-25 °C plastic cap - 10 vials per box. with:  $3 \pm 0.1$  g

Composition

Compositon (g/vial):

Sodium Nalidixate................ 0.0100 

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: Listeria Enrichment Borth

Base

# **Description / Technique**

## Description:

This supplement is used in Listeria Selective Enrichment Media (UVM formulations).

The complete medium gives better results in the detection rate of Listeria monocytogenes in meat products and has the added advantage of only taking 3-4 days.

### 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 the sterile diluent in aseptic conditions and add it to 500 ml of sterilized Listeria Enrichment Broth base cooled to 50°C, previously added with Listeria sel. suppl. UVMI in order to obtain the complete medium.

Do not overheat once suplemented.

Pour the complete medium into tubes and inoculate.

Incubate the tubes in aerobic atmosphere at 35 ± 2°C 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 the 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.

## **Quality control**

## Physical/Chemical control

Color: Orange

## Microbiological control

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

Inoculate 30-300 CFU (productivity) 1.000-10.000 CFU (selectivity)

Aerobiosis. Incubation at 35°C ± 2 °C, reading at 24-48 hours

### Microorganism

Escherichia coli ATCC® 8739 (1)

Enterococcus faecalis ATCC® 19433 (2)

Listeria monocytogenes ATCC® 13932, WDCM 00021 + (1) + (2)

Listeria monocytogenes ATCC® 35152, WDCM 00109 + (1) + (2)

### Sterility control

Add 5 ml of the sample to:

100 ml TSB and 100 ml Thioglycollate.

Incubation 48 hours at 30-35 °C and 48 hours at 20-25 °C: NO GROWTH.

# Growth

Inhibited. Confirm in TSA at 37°C±1 reading 24 ± 3h Partial Inhibition. Confirm in TSA at 37°C±1 reading 24 ± 3h. > 10 CFU. Blue-green coln. w. opaque halo (Ottaviani Agosti) > 10 CFU. Blue-green coln. w. opaque halo (Ottaviani Agosti)

Page 1 / 2 Revision date: 05/11/20



Reference: DSHB3080

A.B.E. - Technical Data Sheet

Product: Listeria UVM II Selective Suppl.

# **Bibliography**

- · 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/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- · ISO 11290-1:2017 Standard. Microbiology of the food chain. Horizontal method for the detection and enumeration of Listeria monocytogenes and for Listeria spp.- Part 1: Detection Method
- · ISO 11290-2:2017 Standard. Microbiology of the food chain. Horizontal method for the detection and enumeration of Listeria monocytogenes and for Listeria spp.- Part 2: Enumeration Method
- · 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.

Page 2 / 2 Revision date: 05/11/20