

O.A. LISTERIA Supplement

Supplement for selective enrichment of Listeria monocytogenes.

DESCRIPTION

O.A. LISTERIA Supplement is constituted by 4 bottles of enrichment supplement, containing L- α -fosphatidylinositol, and 4 vials of freeze-dried selective supplement, containing Nalidixic Acid, Ceftazidime, Cycloheximide and Polymyxin B, to use for the preparation of the medium O.A. LISTERIA AGAR (ref. 610601) for the detection of *L. monocytogenes*.

KIT CONTENTS

Each kit contains:

- 4 bottles (20 mL) of O.A. LISTERIA ENRICHMENT Supplement
- 4 vials of freeze-dried O.A. LISTERIA SELECTIVE Supplement
- 1 Instruction sheet.

PRINCIPLE OF THE METHOD

The selectivity of the medium is due to the addition of antimicrobial selective mixture containing ceftazidime, polymyxin B, nalidixic acid and cycloheximide. The specific differential activity is obtained by means a substrate (L- α -fosphatidylinositol) for a phospholipase C enzyme that is present in *Listeria monocytogenes*.

COMPOSITION

O.A. LISTERIA ENRICHMENT Supplement	
<i>Content / bottle</i>	
L- α - fosphatidylinositol	1.0 g

O.A. LISTERIA SELECTIVE Supplement	
<i>Content / vial</i>	
Nalidixic Acid	10.0 mg
Ceftazidime	10.0 mg
Cycloheximide	25.0 mg
Polymyxin B	38350 IU

PROCEDURE FOR USE

1. Aseptically add the content of 1 bottle of O.A. LISTERIA ENRICHMENT Supplement, prewarmed at 48-50°C, and of 1 vial of O.A. LISTERIA SELECTIVE Supplement, reconstituted with 5 mL of a 1:1 mix of ethanol and sterile distilled water, to 500 mL of medium O.A. LISTERIA AGAR (ref. 610601), autoclaved and cooled to 48-50°C.
2. Mix with care.
3. Distribute into the final containers.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical documentation for O.A. LISTERIA AGAR (ref. 610601).

QUALITY CONTROL

Microbiological control.

Prepare the O.A. LISTERIA AGAR (ref. 610601) and inoculate it with the strains indicated in the microbiological control table. Incubate at 36 ± 1 °C for 24-48 hours.

Control strains		Growth	Characteristics
<i>Escherichia coli</i>	ATCC 11229	Inhibited	Blue-green colonies surrounded by an opaque halo Blue-green colonies surrounded by an opaque halo Blue-green colonies
<i>Enterococcus faecalis</i>	ATCC 19433	Inhibited	
<i>Candida albicans</i>	ATCC 10231	Inhibited	
<i>Listeria monocytogenes</i>	ATCC 35152	Good	
<i>Listeria monocytogenes</i>	ATCC 19111	Good	
<i>Listeria innocua</i>	ATCC 33090	Good	

PRECAUTIONS

The kit contains products with dangerous substance according to directives 1999/45/CE and 2001/60/CE for which exist recognized exposure limits. For its correct use consult the safety data sheet.

STORAGE

Store O.A. LISTERIA Supplement at 2-8 °C in its original packaging. In such conditions O.A. LISTERIA Supplement maintains its validity until the expiry date indicated on the label. Do not use beyond that date. Eliminate without using if there are signs of deterioration.









REFERENCES

- Artault, S., Bind, J.L., Delaval, Y., Dureuil, N., Gillard, N., (2000) AFNOR Validation of the ALOA method for the detection of *Listeria monocytogenes* in foodstuffs. Colloque de la Societè Francaise de Microbiologie, Paris 19-20 Octobre, 2000.
- ISO 11290 1/2 (Draft, May 2002) Microbiology of food and animal feeding stuffs – Horizontal method for detection and enumeration of *Listeria monocytogenes*.
- Ottaviani, F., Ottaviani, M., Agosti, M., (1997) Esperienze su un agar selettivo e differenziale per *Listeria monocytogenes*. Industrie alimentari, XXXVI, luglio-agosto, 888.

PRESENTATION

product	REF	
O.A. LISTERIA Supplement	81074	4+4 bottles

TABLE OF SYMBOLS

LOT Batch code	 Do not reuse	 Manufacturer	 Contains sufficient for <n> tests	 Temperature limitation
REF Catalogue number	 Fragile, handle with care	 Very toxic	 Use by	 Caution, consult accompanying documents



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Rev. 1/ 23.03.2010