



## Chromocult® Listeria Agar Selective Supplement

Additive for the preparation of Chromocult Listeria Selective Agar (ISO 11290).

### Mode of Action

Chromocult Listeria Agar Selective Supplement is a mixture of four antibiotics in lyophilized form. Each vial is sufficient for 500 ml of medium.

Amphotericin largely reduces the growth of Yeasts and Moulds.

Polymyxin B inhibits the growth of gram-negative bacteria.

Nalidixic acid inhibits mainly the growth of gram-negative bacteria but also of some gram-positive bacteria.

Ceftazidime has a broad spectrum activity against gram-negative and gram-positive bacteria.

### Composition (per vial)

Amphotericin B 5 mg; Ceftazidime 10 mg; Nalidixic acid sodium salt 10 mg; Polymyxin B sulphate 38350 U.

### Final Concentration (per litre)

Amphotericin B 10 mg; Ceftazidime 20 mg; Nalidixic acid sodium salt 20 mg; Polymyxin B sulphate 76700 U.

This concentration is in accordance with ISO 11290.

### Preparation

The lyophilisate is to dissolve in the original vial by adding of 4 ml of a 50:50 mixture of sterile demineralised water and ethanol (96%). Mix gently until a homogeneous yellow suspension is obtained.

Once rehydrated the supplement should be added to the medium immediately (within 10 minutes).

Add entire vial contents (4 ml) aseptically to 476 ml of molten Chromocult Listeria Selective Agar (Base) cooled to 50-48°C. Mix well to ensure even distribution.

Any unused, rehydrated supplement should be discarded.

### Storage

Usable up to the expiry date when stored dry and tightly closed at 2 to 8°C.

### Literature

Notermans, S.H.W., Dufrenne, J., Leimeister-Wächter, M., Domann, E., and Chakraborty, T. 1991. Phosphatidylinositol-specific phospholipase C activity as a marker to distinguish between pathogenic and nonpathogenic **Listeria** species. *Appl. Environ. Microbiol.* **57**:2666 - 2670.

Ottaviani, E.; Ottaviani, M., and Agosti, M. 1997. Differential agar medium for **Listeria monocytogenes**. *Industrie Alimentari* **36**, 888.



Vlaemyneck, G., Lafarge, V., and Scotter, S. 2000. Improvement of the detection of **Listeria** by the application of ALOA, a diagnostic, chromogenic isolation medium. J. Appl. Microbiol. **88**, 430 - 441.

Bauwens, L., Vercammen, F., and Hertsens, A. 2003. Detection of pathogenic **Listeria** spp. in zoo animal faeces: use of immunomagnetic separation and a chromogenic isolation medium. Vet. Microbiol. **91**, 115 - 123.

ISO INTERNATIONAL STANDARDISATION ORGANISATION. Microbiology of food and animal feeding stuffs - Horizontal method for the detection and enumeration of **Listeria monocytogenes**. Part 1: Detection method - Amendment 1. **ISO 11290:2004**.

ISO INTERNATIONAL STANDARDISATION ORGANISATION. Microbiology of food and animal feeding stuffs - Horizontal method for the detection and enumeration of **Listeria monocytogenes**. Part 2: Enumeration method - Amendment 1. **ISO 11290:2004**.

FDA/BAM - Detection and Enumeration of **Listeria monocytogenes** Chapter 10 (January 2003)

## Ordering Information

Product	Ordering No.	Pack size
Chromocult® Listeria Agar Selective Supplement	1.00432 .0010	10 vials
Chromocult® Listeria Selective Agar, Base, acc. Ottaviani und Agosti	1.00427.0500	500 g
Chromocult® Listeria Agar Enrichment Supplement	1.00439.0010	10 vials
Peptone water, buffered	1.07228.0500	500 g
Fraser Listeria Selective Enrichment Broth (base),	1.10398.0500	500 g
Fraser Listeria Selective Supplement (2 x 8 phials, for preparation of FRASER broth)	1.10399.0001	
Singlepath® L`mono	1.04148.0001	