Technical Data Sheet

Chromocult®
Listeria Agar Enrichment-Supplement

Ordering number: 1.00439.0010

Chromocult® Listeria Agar Enrichment-Supplement is a homogeneous, sterile suspension of L-α-phosphatidylinositol in distilled water.

Mode of Action

Differentiation of *Listeria monocytogenes* from other *Listeria spp*. is achieved through the production of a phosphatidylinositol-specific phospholipase C (PI-PLC). *Listeria monocytogenes* hydrolyses the specific purified substrate added to the medium producing an opaque halo around the colonies.

Most *Listeria ivanovii* also produce an opaque halo around the colonies after 48 h incubation.

Typical Composition

	Gram per vial	Final concentration [g/l]
L-α-Phosphatidylinositol	1	2

Preparation

A bottle of the sterile Enrichment Supplement is heated in a water bath to 48-50 °C.

Just after addition of Chromocult® Listeria Selective Supplement (4 ml) add entire vial contents of Chromocult® Listeria Enrichment-Supplement (20 ml) aseptically to 480 ml of molten Chromocult® Listeria Selective Agar Base cooled to 45-50 °C.

Stir gently during this addition to homogenously distribution of both supplements.

Storage

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

Quality Control

Chromocult® Listeria Agar Enrichment-Supplement is tested in Chromocult® Listeria Agar (Base) acc. OTTAVIANI and AGOSTI acc. ISO 11290 (article number 1.00427.0500) in accordance with the current version of EN ISO 11133.

Function	Control strains	Incubation	Reference medium	Method of control	Expected results
Productivity	*Listeria monocytogenes* 4b ATCC® 13932 *Listeria monocytogenes* 1/2a ATCC® 35152	40-48 h at 36-38 °C	Tryptic Soy Agar (TSA)	Quantitative	Recovery ≥ 50 %, blue green colonies with opaque halo
Selectivity	*Escherichia coli* ATCC® 8739 *Escherichia coli* ATCC® 25922 *Enterococcus faecalis* ATCC® 19433 *Enterococcus faecalis* ATCC® 29212	40-48 h at 36-38 °C	-	Qualitative	Total inhibition
Specificity	*Listeria innocua* ATCC® 33090	40-48 h at 36-38 °C	-	Qualitative	No recovery limit specified, blue green colonies without opaque halo

Please refer to the actual batch related Certificate of Analysis.

A recovery rate of 50 % is equivalent to a productivity value of 0.5.

Listeria monocytogenes ATCC® 13932

Listeria innocua ATCC® 33090

Literature

APHA (2015): Compendium of Methods for the Microbiological Examination of Foods. 5th ed. American Public Health Association, Washington, D.C.

FDA-BAM (2013): Chapter No. 10: Detection and Enumeration of *Listeria monocytogenes* in Foods. U.S. Food and Drug Administration - Bacteriological Analytical Manual.

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: Modification of the isolation media and the haemolysis test, and inclusion of precision data. EN ISO 11290-1:1998 + Amd 1:2004.

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: Modification of the enumeration medium. EN ISO 11290-2:1998 + Amd 1:2004.

ISO International Standardisation Organisation. Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media. EN ISO 11133:2014.

Ordering Information

Product	Cat. No.	Pack size
Chromocult® Listeria Agar Enrichment-Supplement	1.00439.0010	10 vials
Chromocult® Listeria Agar (Base) acc. Ottaviani und Agosti acc. to ISO 11290	1.00427.0500	500 g
Chromocult® Listeria Agar Selective-Supplement	1.00432.0010	10 vials

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