

ChromoBio® LISTERIA PLUS

A selective, differential and chromogenic medium for the cultivation, differentiation and isolation of *Listeria monocytogenes*. *Listeria ivanovii* can also be differentiated from *Listeria monocytogenes* on this medium.

Dehydrated media	
Code number:	500 g: LCA20500, 5 kg: LCA25000
Packaging of 500 g	500 g agar base + 14 x 100 ml liquid supplement + 14 vials selective supplement
Packaging of 5 kg	5 kg agar base + 140 x 100 ml liquid supplement + 140 vials selective supplement
Appearance of agar base:	Beige, homogeneous hygroscopic powder
Appearance of liquid supplement:	Yellowish, homogeneous turbid solution
Appearance of selective supplement:	White, homogeneous lyophilisate
pH before autoclaving (25 °C):	7,0 - 7,4

Direction: Suspend **35 g agar base** in 400 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically **100 ml of liquid supplement** and **one vial of selective supplement** reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Warning!

As the blending of the liquid supplement is a longer process, continue mixing approximately 1 minute.

Bottled media	
Code number:	100 ml: LCA30100, 500 ml: LCA30500
Packaging of 100 ml bottled media:	80 ml agar base + 20 ml liquid supplement + 1 vial selective supplement
Packaging of 500 ml bottled media:	400 ml agar base + 100 ml liquid supplement + 1 vial selective supplement
Appearance of agar base:	Purple, transparent gel
Appearance of liquid supplement:	Yellowish, homogeneous turbid solution
Appearance of selective supplement:	White, homogeneous lyophilisate
pH (25 °C):	7,1 - 7,3

Direction: Supplement the melted bottled media according to the direction of the dehydrated media and dispense aseptically into sterile Petri-dishes.

Plated media	
Code number:	55 mm: LCA50055, 90 mm: LCA50090
Appearance of plated media:	Purple, homogeneous turbid gel
pH (25 °C):	7,1 - 7,3

Direction: Media in Petri-dishes are ready to use.

FORMULA FOR ONE LITRE OF COMPLETE MEDIUM

Peptones	34,00 g
Special carbohydrate mixture	2,00 g
Lithium chloride	10,00 g
Sodium chloride	5,00 g
Sodium pyruvate	2,00 g
Magnesium glycerophosphate	1,00 g
Magnesium sulphate	0,50 g
L- α -Phosphatidylinositol	2,00 g
Chromogenic substrate	0,05 g
Ceftazidime	0,02 g
Nalidixic acid	0,02 g
Amphotericin B	0,01 g
Polymyxin B	76.700 U
Bromocresol purple	0,05 g
Buffers	2,50 g
Agar	13,00 g

Note: The typical formula can be adjusted to obtain optimal performance.

Storage conditions: Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled media protected from light at room temperature. Store the plated media and the supplements protected from light at 2-8 °C. Use before the expiry date on the label.

Quality control:

Test strains	Incubation temp: 37 °C	Growth	Incubation time: 48 h
<i>Listeria monocytogenes</i> ATCC 19115		Good, yellowish green colonies with opaque halo and yellow colouration in the medium	
<i>Listeria ivanovii</i> ATCC 19119		Good, deep blue colonies with opaque halo but without yellow colouration in the medium	
<i>Listeria innocua</i> ATCC 33091		Good, yellowish green colonies with yellow colouration in the medium but without opaque halo	
<i>Escherichia coli</i> ATCC 25922		Inhibited	

References: Ottaviani et al. (1997) Quinper Froid Symposium Proceedings, P6 A.D.R.I.A. Quinper (F)

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