

PRODUCT INFORMATION

Listeria Chromogenic Agar Base according to Ottaviani and Agosti (ALOA) ISO

Cat. No. L12-133

DESCRIPTION

Listeria Chromogenic Agar Base according to Ottaviani and Agosti (ALOA) is a selective medium for the presumptive isolation and identification of *Listeria monocytogenes* and *Listeria* spp. in food and clinical samples.

The X-glucoside chromogenic gives all Listeria species a blue color due to their β -glucosidase enzyme. Other organisms that have that enzyme, like Enterococci, are inhibited by the selective agents. The differential activity is also obtained by lipase C substrate, responsible for the opaque white hallo that surrounds *L. monocytogenes*.

FORMULA (g/L)

Enzymatic Digest of Casein	6.0 g	Glucose	2.0 g
Bacteriological Agar	13.5 g	Magnesium Sulfate	0.5 g
Sodium Chloride	5.0 g	Sodium Hydrogen Phosphate	2.5 g
Sodium Pyruvate	2.0 g	Yeast Extract	10.0 g
Magnesium Glycerophosphate	1.0 g	Lithium Chloride	10.0 g
Enzymatic Digest of Animal	18.0 g	5-bromo-4-chloro-3-indolyl-β-D-	0.05 g
Tissues		glycopyranoside	

Final pH: 7.2 ± 0.2 at 25 °C

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Mix 35.275 grams of the medium in 470 mL of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes. If more than 500 mL are being prepared, it is recommended to sterilize at 115 °C for 10 minutes. Cool to 47-50 °C and aseptically add one bottle of Listeria Chromogenic Lipase C Supplement (L12-134) and one vial of Listeria chromogenic Selective Supplement (L12-135). Homogenize gently and dispense into Petri dishes.

Version 01 – Date 01/18/24



QUALITY CONTROL SPECIFICATIONS

- 1. The powder is homogenous, free flowing and beige.
- 2. Visually the prepared medium is amber, with trace to light haze.
- 3. Expected cultural response after 48 hours at 35 °C.

ORGANISM	RESULT	
Listeria monocytogenes 4b ATCC 13932	Good Growth (>50%)	
Listeria monocytogenes 40 ATCC 15952	Blue green colonies with opaque halo	
Enterococcus faecalis ATCC 29212	Inhibited	
Listeria innocua ATCC 33090	Blue green colonies without opaque halo	
Listoria monosi togonos 1/22 ATCC 25152	Good Growth (>50%)	
Listeria monocytogenes 1/2a ATCC 35152	Blue green colonies with opaque halo	
Escherichia coli ATCC 8739	Inhibited	

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.

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