

IVD solutions through partnership



CHROMagar™ Listeria

For detection, enumeration and confirmation
of *Listeria monocytogenes*

The background of the entire page is a microscopic view of *Listeria monocytogenes* bacteria. The bacteria appear as small, blue, rod-shaped structures, some of which are surrounded by larger, white, circular structures. A large, circular inset in the lower right quadrant provides a magnified view of a single bacterium, showing its characteristic rod shape and internal structure.

CHROMagar™
Identification
Listeria

CHROMagar™
The Chromogenic Media Pioneer

● CHROMagar™ Listeria Method

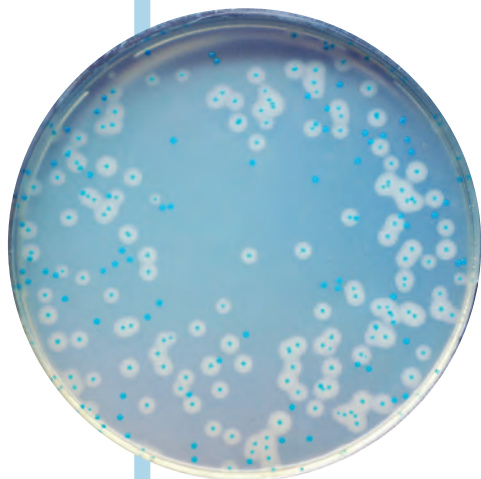


Plate Reading

• *L.monocytogenes*
→ blue, diameter less than 3 mm,
regular and white halo

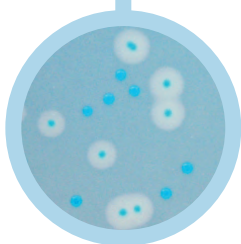
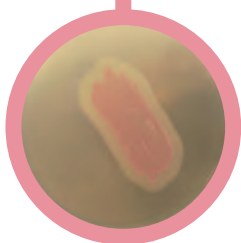


Plate Reading

• *L.monocytogenes*
→ rose surrounded
by a white halo



CHROMagar™ Listeria Method

Listeria monocytogenes is a widespread bacteria, present in the soil, sewage or faecal matter. Its ability to form listerial biofilms on contact surfaces makes it difficult to eliminate. This pathogen can cause serious food poisoning and is therefore frequently a microbial Q.C. target in food processing facilities to avoid food contamination. Contamination can occur at all steps of the food manufacturing chain from raw materials to place of consumption.

CHROMagar has developed a rapid method for the detection of *L.monocytogenes* in food stuff, comprising the following simple steps (1) enrichment in half frazer broth for 24h, (2) isolation in CHROMagar™ Listeria, (3) confirmation of *Listeria monocytogenes* species in CHROMagar™ Identification Listeria. This method was validated by the AFNOR, in comparison to the method described in the ISO-11290. This validation showed that the CHROMagar™ Listeria method had the same rate of detection, while dramatically reducing both, the time to result and the workload.

CHROMagar™ Listeria Method vs ISO 11290 Method:

	CHROMagar Listeria Method	ISO 11290 Method (classical)
Number of Enrichments	1 for 24h	2 = total 48 h
Number of plates Incubation	1 plate for 24h	4 plates for 24h & 48h
Number of confirmatory tests	1 test	7 tests
Time to result: Negative results Positive results	After 2 days After 3 days	After 5 days After 7 days

CHROMagar™ Listeria

For detection and numeration of *Listeria monocytogenes*

Medium Performance

Clear reading

Since *L.monocytogenes* and *L.innocua* have similar biochemical properties, they cannot be differentiated on traditional media (Palcam, Oxford). CHROMagar™ Listeria helps to easily differentiate *Listeria monocytogenes* from other *Listeria* directly at the isolation step: the colonies are blue and surrounded by a white halo due to a specific phospholipase activity.

CHROMagar™ Identification Listeria

For confirmation of *L.monocytogenes* species from suspect colonies on CHROMagar Listeria

Medium Performance

Simplicity / quick results

Classical confirmatory tests for the *L.monocytogenes* species include many tedious and time consuming steps (purification + catalase + haemolysis + dextrose + rhamnose + xylose...) CHROMagar™ Identification Listeria simplifies the species confirmatory step and reduces the workload, hence improves the efficiency of the laboratory.

A single spot of a suspect colony out of **CHROMagar™ Listeria** directly put onto **CHROMagar™ Identification Listeria**, will provide confirmation of species within 24 hours.

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Ordering Information

Product	Order Code
CHROMagar™ Listeria dry media, 5 liter	15LM852
CHROMagar™ Listeria ready to use plates, 20 pcs.	201440