

# Monocyto-ID Listeria Scan

Standard method for biochemical detection and identification of *Listeria monocytogenes*

MenidiMedica  
Biotechnology Applications

**REF** FX100025 - 25 tests  
FX100100 - 100 tests



12 months, store at 2-8°C

## Description

Listeriosis is a serious infection, classified as a zoonosis, which results from the ingestion of food contaminated with the bacterium *Listeria monocytogenes*. It leads to a severe clinical picture in infants, immunocompromised individuals and poses significant risks to foetuses, while pregnant women usually have mild symptoms.

## Contents

**FX100025 - 25 vials R**

**FX100100 - 100 vials R**

**Note:** All kit components are stable until the expiration date on the label. Protect them from light and contamination during use. Do not use the reagents after the expiration date. Store reagents at 2-8°C.

**Shelf life** 12 months from date of production

**Storage and stability** 2-8°C

## Samples

Food, milk, dairy products, fish

*Note: for sample preparation, please contact the scientific support department of MenidiMedica Biotech*

## Procedure

- Incubation of the sample in suitable nutrient medium (e.g. Ottaviani Agosti Agar Base) for 24 hours at 37°C in an incubator
- Place a vial - found on the package - with the *Listeria monocytogenes* biochemical detection and identification reagent in the incubator at the same time as the incubation described in step a is performed.
- Remove the medium and the vial from the incubator.
- Open the vial and add one drop or 50 ul of deionised water to the vial
- Collect a formed colony from the nutrient medium with a swab and dip it into the vial, shaking gently until the contents of the swab are dissolved in the vial.
- Incubate the vial in the incubator at 37°C for 6 hours
- Remove the vial from the incubator and check the colour that has appeared

## Interpretation

Green: positive sample for *Listeria monocytogenes*

Sensitivity: 100% for *Listeria monocytogenes*

Specificity: 100% for *Listeria monocytogenes*

A comparison study with other methods was performed on a total number of samples n=500.

## Bibliography

- Hunt K, Blanc M, Álvarez-Ordóñez A, Jordan K. Challenge Studies to Determine the Ability of Foods to Support the Growth of *Listeria monocytogenes*. *Pathogens*. 2018 Oct 05;7(4)
- Komora N, Bruschi C, Ferreira V, Maciel C, Brandão TRS, Fernandes R, Saraiva JA, Castro SM, Teixeira P. The protective effect of food matrices on *Listeria* lytic bacteriophage P100 application towards high pressure processing. *Food Microbiol*. 2018 Dec;76:416-425
- Ranjbar R, Halaji M. Epidemiology of *Listeria monocytogenes* prevalence in foods, animals and human origin from Iran: a systematic review and meta-analysis. *BMC Public Health*. 2018 Aug 23;18(1):1057



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