

BactoReal® Kit Listeria monocytogenes

Kit version 1.1

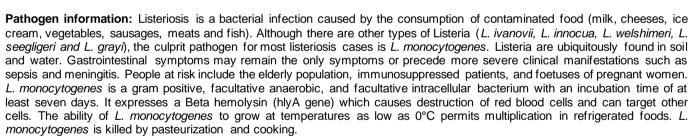


For in vitro diagnostic use only

BactoReal [®] Kit <i>Listeria monocytogenes</i>				
Order no.	Reactions	Pathogen	Internal positive control	
DHUB00853	50	FAM channel	Cy5 channel	

Kit contents:

- Assay for detection of Listeria monocytogenes and of internal DNA positive control (IPC)
- IPC-Target DNA (control of DNA extraction and of PCR amplification)
- DNA reaction mix (contains a highly purified Taq Polymerase for rapid hot-start PCR, dNTPs with dUTP and Uracil-N glycosylase (UNG) to eliminate amplicon carryover, ROX[™] dye (passive reference) and buffer components – additives optimized to handle PCR inhibitors)
- DNA positive control for Listeria monocytogenes
- Nuclease-free water



Intended purpose: BactoReal® Kit Listeria monocytogenes is a non-automated CE-certified IVD real-time PCR test for the qualitative detection and identification of DNA (hlyA gene) of Listeria monocytogenes.

Proper specimens are DNA extracts isolated from samples of CSF or aspirate samples.

This test is suitable for patients of all ages with suspected infection with *Listeria monocytogenes* and is intended as an aid in the diagnosis of infection with this pathogen in combination with patient history and additional clinical information.

The test is intended for professional use and is limited to qualified personnel instructed in the procedures of real-time PCR and *in vitro* diagnostic procedures.

A probe-specific amplification-curve in the FAM channel indicates the amplification of *L. monocytogenes* specific DNA. The internal DNA positive control (IPC) is detected in the fluorescence channel Cy5 and serves as a control for DNA extraction and possible real-time PCR inhibition. The target for the DNA IPC (artificial target DNA) is added during sample extraction.

PCR-platforms: This test has been validated with the ABI® 7500 Fast Real-Time PCR System (fast cycle parameters are not supported, Thermo Fisher Scientific) and tested with a LightCycler® 480 II (Roche Diagnostics) and Mx3005P® (Agilent).



Product Description



It is also compatible with other real-time PCR instruments which detect and differentiate fluorescence in FAM and Cy5 channel (e.g., QuantStudio™ 5, QuantStudio™ 7 real-time PCR system (Thermo Fisher Scientific), qTOWER³G (Analytik Jena), Mic instrument (bio molecular systems), cobas z 480 Analyzer (Roche)).

Performance data: BactoReal[®] Kit *Listeria monocytogenes* is specific for *Listeria monocytogenes*. The LoD95% (smallest number of target DNA copies which can be detected in 95% of cases) is 6 copies/reaction. Diagnostic evaluation was performed with bacterial isolates and with 29 clinical samples.

Results of clinical validation:

	Value	95% CI
Sensitivity	100.00 %	76.84 % to 100.00 %
Specificity	100.00 %	78.20 % to 100.00 %
NPV	100.00 %	78.20 % to 100.00 %
PPV	100.00 %	76.84 % to 100.00 %
Prevalence	48.3 %	

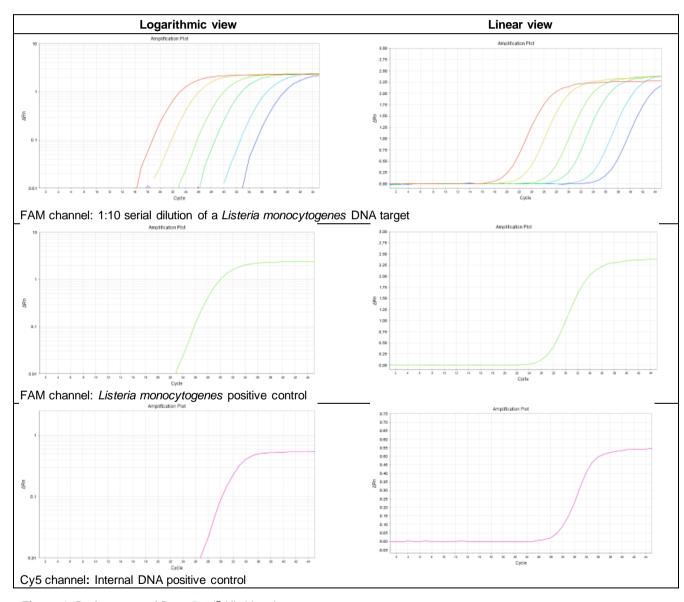


Figure 1 Performance of BactoReal® Kit Listeria monocytogenes