



qPCR *Listeria monocytogenes* WT/139E detection Kit

MAMBA® orange line - Identification of Microorganism

Applicability

- Compatible with low- and high-throughput qPCR instruments.
- Validated with BioRad CFX Connect™, Applied Biosystem 7500 FAST, QuantStudio™
- Utilizes conventional FAM and HEX marked probes.
- Multiplex approach. Each well contains an internal control to detect sample inhibition.
- Shelf life: 1 year at -20 °C or 6 months at 4 °C.
- Includes 5 freeze and thaw cycles
- Two pipetting steps required to prepare the ready-to-use PCR mix, the risk of contamination is significantly reduced.
- Results in less than 1.5 hours.
- REF: OR-002-96x

Sensitivity

Capable of detecting up to 5 copies of *Listeria* plasmid DNA, even in the presence of a high background flora.

Specificity

Detects all *Listeria* species and serotypes, especially Variant 139E. Tested against a various number of closely related bacteria and DNAs relevant in animal feed.

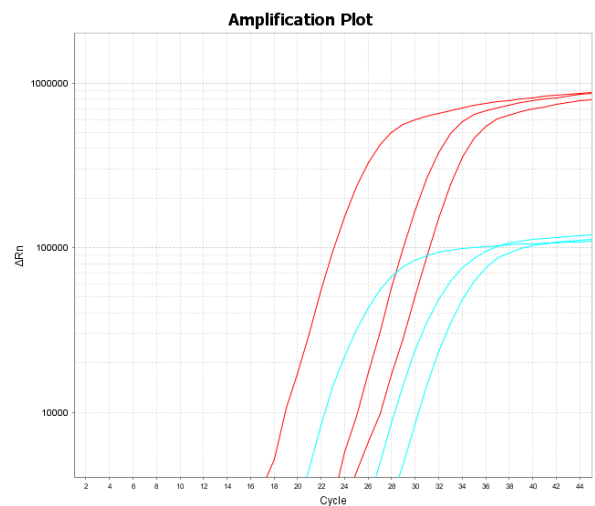
Exclusivity:

Target DNA at low levels (≈5 copies) was successfully detected in mixed samples containing high levels of non-target bacterial DNA (≈ 5000 copies).

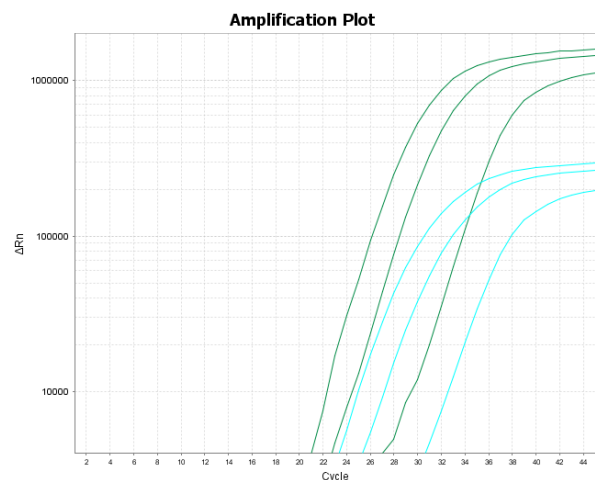
Sensitivity results

Multiple copy numbers tested: 1000 (left), 100 (middle), 5 (right)

- red = *Listeria monocytogenes*
- blue = internal control



- green = *Listeria variant 139E*
- blue = internal control





Reliability

System remains stable and robust in relation to temperature (± 1 °C), mastermix volume (-6 %), probe and primer concentration (-30 %) variations.

Reliability results

Tested under standard (60 °C) and triple altered conditions at 59 °C and 61 °C.

- red = *Listeria mono. with variant 139E*
- blue = internal control

Amplification Plot

