

BACTERIAL MENINGITIS

Multiplex molecular assay for differential diagnosis

BACTERIAL MENINGITIS REALTIME PCR KIT

One-step, real-time amplification to detect nucleic acids from *Streptococcus pneumoniae* (SPN), *Listeria monocytogenes* (LMO), *Streptococcus agalactiae* (SAG), *Haemophilus influenzae* (HIN), *Neisseria meningitidis* (NME) and *Escherichia coli* K1 (ECOK1) in human cerebrospinal fluid samples.

- 7 targets Multiplex PCR - two reaction tubes per sample.
- Simultaneous analysis of **6 pathogens** using specific targets: SPN, LMO, SAG, HIN, NME and ECOK1.
- **Internal control** - for monitoring the carry-over of amplification inhibitors and the correct amplification set-up.
- Suitable for **4-channel qPCR cyclers**: FAM, HEX (VIC), Texas Red (ROX) and Cy5.
- Fast and reliable **results in under 2 hours**.
- **Lyophilized** master mix and positive control to ensure stability and reduce transportation costs.
- **Different kit presentations** for greater user convenience: vials and pre-dispensed strip-divisible plate.



Ref. RTPCR014-LPD



Ref. RTPCR014

BACTERIAL MENINGITIS

APPLICATIONS

Human cerebrospinal fluid samples.

CONTENT

Master mix A and B, Reconstitution solution, Positive and Negative control. Each mix includes internal control primers/probes for monitoring the carry-over of amplification inhibitors and the correct amplification set-up.

Kit formats:

Ref. RTPCR014 contains 6 (3 + 3) glass vials of lyophilized master mix A and B. Reaction tubes are not included.

Ref. RTPCR014-LPD contains caps and 96 x 0.1ml Tear Off 8-Tube Strip Mat with pre-dispensed lyophilized master mix.



TARGETS

	Mix	Target	Channel
SPN	A	<i>lytA</i> gene	FAM
LMO	A	<i>hly</i> gene	HEX/VIC
SAG	A	<i>cfb</i> gene	Texas Red/ROX
HIN	B	<i>bexB</i> gene	FAM
NME	B	<i>ctrA</i> & <i>sodC</i> genes	HEX/VIC
ECOK1	B	<i>neuB</i> gene	Texas Red/ROX
Internal Control	A, B	Exogenous	Cy5

COMPATIBILITY

Extraction systems:

BioMérieux (NucliSENS® easyMag®), Roche (MagNA Pure System), TANBead (Maelstrom 4800 and 9600), Thermo Fisher Scientific (KingFisher Flex) and Bruker (GenoExtract 12), among others.

RealTime PCR thermocyclers:

Bio Rad (CFX96 Touch™), Agilent (Mx3005P), Analytik Jena (qTOWER), Qiagen (Rotor-Gene Q5plex), Thermo Fisher Scientific (QuantStudio 5) and Azure Biosystems (Cielo™), among others.

PERFORMANCE

	Sensitivity	Specificity	No. of samples
SPN	98%	100%	104
LMO	98%	100%	101
SAG	96%	100%	103
HIN	96%	100%	102
NME	98%	100%	103
ECOK1	94%	100%	103

Analytical sensitivity - Limit of detection (LoD)

	Copies/ml	Copies/reaction
SPN	3,200	16
LMO	1,900	9.5
SAG	1,300	6.5
HIN	1,400	7
NME	3,800	19
ECOK1	3,600	18

ORDERING INFORMATION AND RELATED PRODUCTS

	Reference	Content
BACTERIAL MENINGITIS REALTIME PCR KIT NEW	RTPCR014-LPD	48 tests
VIRAL MENINGITIS REALTIME PCR KIT	RTPCR011-LPD	48 tests
AMPLIRUN® TOTAL MENINGITIS CONTROL (CSF)*	MBTC025-R	10 vials

* Available soon