

VIRAL MENINGITIS

Multiplex molecular assay
for differential diagnosis

VIRAL MENINGITIS REALTIME PCR KIT

One-step, real-time reverse transcription and amplification of nucleic acids for the detection of herpes simplex virus 1 (HSV-1), herpes simplex virus 2 (HSV-2), varicella-zoster virus (VZV), enterovirus (EVs), human parechovirus (HPeVs), West Nile virus (WNV) and Toscana virus (TOSV) in human cerebrospinal fluid samples.

- 8 targets Multiplex PCR - two reaction tubes per sample.
- Simultaneous analysis of 7 pathogens using specific targets: HSV-1, HSV-2, VZV, EVs, HPeVs, WNV and TOSV.
- Internal control - for monitoring the carry-over of amplification inhibitors and the correct amplification set-up.
- Suitable for 5-channel qPCR cyclers: FAM, HEX (VIC), Q705 (Cy5.5), 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. RTPCR011-LPD



Ref. RTPCR011

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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. RTPCR011 contains 6 (3 + 3) glass vials of lyophilized master mix A and B. Reaction tubes are not included.

Ref. RTPCR011-LPD contains caps and 96 x 0.1ml Tear Off 8-Tube Strip Mat with pre-dispensed lyophilized master mix.



● RTPCR MIX A ● RTPCR MIX B

TARGETS

	Mix	Target	Channel
HSV-1	A	US4 gene	FAM
HSV-2	A	UL27 gene	HEX/VIC
VZV	A	ORF29 gene	Texas Red/ROX
EVs	B	5'UTR gene	FAM
HPeVs	B	5'UTR gene	Texas Red/ROX
WNV	B	3'UTR gene	Q705/Cy5.5
TOSV	B	N gene	HEX/VIC
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
HSV-1	92%	100%	100
HSV-2	98%	100%	100
VZV	94%	100%	100
EVs	96%	100%	100
HPeVs	96%	100%	100
WNV	98%	100%	100
TOSV	98%	100%	100

Analytical sensitivity - Limit of detection (LoD)

	Copies/ml	Copies/reaction
HSV-1	3,200	16
HSV-2	3,050	15.3
VZV	3,000	1
EVs	1,000	5
HPeVs	1,700	8.5
WNV	1,400	7
TOSV	1,000	5

ORDERING INFORMATION AND RELATED PRODUCTS

Description	Reference	Content
VIRAL MENINGITIS REALTIME PCR KIT NEW	RTPCR011-LPD	48 tests
BACTERIAL MENINGITIS REALTIME PCR KIT NEW	RTPCR014-LPD	48 tests
AMPLIRUN® TOTAL MENINGITIS CONTROL (CSF)*	MBTC025-R	10 vials
AMPLIRUN® ENTEROVIRUS 68 RNA CONTROL	MBC125	12,500-20,000 copies/µl
AMPLIRUN® ENTEROVIRUS 71 RNA CONTROL	MBC019	12,500-20,000 copies/µl
AMPLIRUN® HERPES SIMPLEX 1 DNA CONTROL	MBC023	10,000-20,000 copies/µl
AMPLIRUN® HERPES SIMPLEX 2 DNA CONTROL	MBC024	10,000-20,000 copies/µl
AMPLIRUN® PARECHOVIRUS 1 RNA CONTROL	MBC102-R	12,500-20,000 copies/µl
AMPLIRUN® TOSCANA VIRUS RNA CONTROL	MBC129-R	12,500-20,000 copies/µl
AMPLIRUN® VARICELLA-ZOSTER VIRUS DNA CONTROL	MBC048	12,500-20,000 copies/µl
AMPLIRUN® WEST NILE VIRUS RNA CONTROL	MBC069-R	12,500-20,000 copies/µl

* Available soon

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