VIRCELL Molecular

ARBOVIRUSES

Zika, dengue, chikungunya, Oropouche and Mayaro: 5 viruses, 2 kits

VIRPLEX® ARBOVIRUS SOLUTION

Two multiplex real-time PCR kits for serum and plasma that identify **five arboviruses with overlapping symptoms**: Zika, dengue and chikungunya, plus the emerging Oropouche and Mayaro viruses.



ZIKV
CHIKV
DENV
3 viruses

ZIKV/DENV/CHIKV

1 tube · 3 viruses

Zika, dengue and chikungunya viruses in human serum and plasma, with an MS2 internal control.

RTPCR004: 48 tests
RTPCR004-LP (Pre-dispensed strips): 96 tests
CE_{0123} IVDR

OROV
MAYV
2 viruses

OROPOUCHE-MAYARO

1 tube · 2 viruses

Emerging arboviruses with symptoms similar to dengue, Zika and chikungunya. Human serum and plasma with an internal control

RTPCR032-LP-R · 24 tests · RUO
For Research Use Only

- Lyophilized master mix and positive control
- Results in under 2 hours
- MS2 internal control in every reaction

VIRPLEX® ARBOVIRUS SOLUTION

Multiplex molecular diagnosis of arboviral fevers

SIMILAR SYMPTOMS, FIVE POSSIBLE VIRUSES

Dengue, Zika, chikungunya, Oropouche and Mayaro infections can present with overlapping symptoms such as: fever, headache, myalgia and rash. PAHO recommends strengthening the differential diagnosis of Oropouche, particularly with dengue[3]. Molecular testing helps identify the causative virus during the acute phase.

14.4 million
dengue cases reported to WHO in 2024, the highest burden ever recorded[1]

11,201
dengue deaths reported worldwide in 2024[1]

119
countries and territories with local chikungunya transmission[2]

16,239
confirmed Oropouche cases in the Americas in 2024[3]

A COMPLETE MOLECULAR SOLUTION, FROM SAMPLE TO REPORT

Sample
Serum and plasma

MagXtract® 3200
Automated extraction and PCR set-up, 1–32 samples per run

VIRPLEX® Kits
Multiplex real-time PCR, lyophilized and ready to use

VIRCOM PCR
Automatic interpretation, validation, full traceability and LIS export

AMPLIRUN® controls
Quality control throughout the workflow

PERFORMANCE

	Sensitivity	Specificity	No. of samples
ZIKV	99%	100%	309
DENV	100%	100%	432
CHIKV	99%	100%	362

Analytical sensitivity - Limit of detection:

	copies/ml	copies/reaction
ZIKV	159	3
DENV1	389	7,3
DENV2	453	8,5
DENV3	520	9,8
DENV4	504	9,5
CHIKV	42	0,8

ZIKV/DENV/CHIKV kit. Oropouche-Mayaro kit: For Research Use Only, no clinical performance claims.

PME110-10/26

ORDERING INFORMATION AND RELATED PRODUCTS

Description	Reference	Class	Content
ZIKV/DENV/CHIKV REALTIME PCR KIT	RTPCR004 | RTPCR004-LP	CE_{0123} IVDR	48 tests | 96 tests
OROPOUCHE-MAYARO VIRUS REALTIME PCR KIT	RTPCR032-LP-R	RUO	24 tests
AMPLIRUN® TOTAL ZIKV/DENV/CHIKV CONTROL (PLASMA)	MBTC023	CE	10 vials
AMPLIRUN® ZIKA VIRUS (ASIAN LINEAGE) RNA CONTROL	MBC103-R	RUO	12,500-20,000 copies/µl
AMPLIRUN® ZIKA VIRUS RNA CONTROL	MBC072-R	RUO	12,500-20,000 copies/µl
AMPLIRUN® DENGUE 1, 2, 3 AND 4 VIRUS RNA CONTROLS	MBC055-R to MBC058-R	RUO	12,500-20,000 copies/µl
AMPLIRUN® CHIKUNGUNYA VIRUS RNA CONTROL	MBC099-R	RUO	12,500-20,000 copies/µl
AMPLIRUN® OROPOUCHE VIRUS RNA CONTROL	MBC152-R	RUO	12,500-20,000 copies/µl
AMPLIRUN® MAYARO VIRUS RNA CONTROL	MBC153-R	RUO	12,500-20,000 copies/µl

1. World Health Organization. Dengue: global situation, surveillance and progress – 2024 update. Wkly Epidemiol Rec 2025;100(52):665–78.
2. World Health Organization. Chikungunya epidemiology update, June 2025.
3. Pan American Health Organization. Epidemiological Update: Oropouche in the Region of the Americas, 13 August 2025.

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