

# MassARRAY® SARS-CoV-2 Variant Panel (RUO)



## Low-Cost and High-Throughput SARS-CoV-2 Variant Surveillance

Laboratories require cost-effective, rapid solutions to track the key SARS-CoV-2 variants currently in circulation globally. While sequencing-based technologies are commonly used, they are highly complex, expensive and have a long turnaround time. The MassARRAY® SARS-CoV-2 Variant Panel from Agna Bioscience® enables laboratories to overcome these challenges with a high throughput, low-cost and rapid assay for the detection of 36 unique genetic markers and differentiation of key SARS-CoV-2 variants.

### The MassARRAY® SARS-CoV-2 Variant Panel

- **GET ACCURATE DETECTION** - Detect and differentiate 15 unique SARS-CoV-2 variants from the Wuhan lineage of SARS-CoV-2.
- **MAXIMIZE THROUGHPUT** - Process up to hundreds or thousands of samples on a single instrument in a single workday.
- **SIMPLIFY INTERPRETATION** - Clear identification of variants of concern without the need for extensive bioinformatics analysis.
- **SAVE TIME & MONEY** - Low-cost reagents and automated results reporting save lab resources.

For Research Use Only.  
Not for use in diagnostic procedures.

## ASSAY COMPONENTS

The MassARRAY® SARS-CoV-2 Variant Panel is a two-well, qualitative research use assay containing the following:

- One GAPDH assay that serves as an internal control for nucleic acid extraction, reverse transcription (RT), PCR, SAP, and extension steps.
- One assay probing the SARS-CoV-2 viral nucleocapsid (N) gene.
- SARS-CoV-2 variant assays: One assay for each of the 15 variants, targeting a total of 36 genetic markers:

**B.1.617 (India):** L452R, E484Q, P681R

**B.1.617.2 (India):** T478K, T19R, P681R, L452R

**B.1.1.7 (U.K.):** P681H, N501Y, A570D, H69\_V70del, S982A, T716I, Y144del

**B.1.351 (S.A.):** N501Y, D80A, D215G, K417N, E484K, A701V, L18F, L242\_L244del

**P.1 (Brazil):** N501Y, L18F, E484K, K417T

**P.2 (Brazil):** E484K + wildtype calls for L18, K417, A701V, Q677H

**B.1.525 (New York):** E484K, H69\_V70del, Y144del, Q677H

**B.1.526 (New York):** E484K, A701V, D253G, L5F, T95I, S477N

**B.1.526.1 (New York):** D80G, L452R, Y144del

**B.1.427/B.1.429 (California):** L452R, S13I, W152C

**B.1.258 (Putative immune escape):** N439K, H69\_V70del

**Florida:** K1191N, Q493K

**Cluster 5/Mink:** I692V, Y453F, H69\_V70del, N501T

**D614G**

**Broad USA:** Q677P

## ASSAY WORKFLOW

The combined RT-PCR reaction together with high-throughput processing on the MassARRAY System enables testing up to hundreds or thousands of samples per day.



### RNA Extraction

Manual or automated bead-based RNA extraction



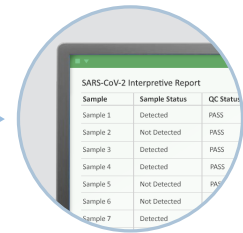
### RT-PCR/SAP/Extension

Multiplex end-point RT-PCR followed by a single base extension reaction



### Target Sequence Detection

Automated analyte transfer and data acquisition



### Results Reporting

Simple, user-friendly reports

## ORDERING INFORMATION

The assay panel sets are available in both 96 and 384 reaction formats to support varying sample throughput.

Catalog No.	Item	# Samples	Chip Format
13340	MassARRAY SARS-CoV-2 Variant Panel Set v3 (RUO) (10x96)	480	96
13340F	MassARRAY SARS-CoV-2 Variant Panel Set v3 (RUO) – CPM (10x96)	480	CPM-96
13341	MassARRAY SARS-CoV-2 Variant Panel Set v3 (RUO) (10x384)	1920	384
13341D	MassARRAY SARS-CoV-2 Variant Panel Set v3 (RUO) – CPM (10x384)	1920	CPM-384
13342	MassARRAY SARS-CoV-2 Variant Panel Set v3 (RUO) (2x384)	384	384
13342D	MassARRAY SARS-CoV-2 Variant Panel Set v3 (RUO) – CPM (2x384)	384	CPM-384

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