

# Active Spike Trimer (B.1.351) protein-coupled magnetic Beads

**Cat. No.** Spike-4128M    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                                  |                                                                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>                   | Sars-CoV-2                                                                                                                                        |
| <b>Source</b>                    | HEK293                                                                                                                                            |
| <b>ProteinLength</b>             | Val 16 - Pro 1213(L18F, D80A, D215G, 242-244del, R246I, K417N, E484K, N501Y, D614G, A701V, R683A, R685A,F817P, A892P, A899P, A942P, K986P, V987P) |
| <b>Appearance</b>                | Powder mixture                                                                                                                                    |
| <b>Particle size</b>             | 2 µm                                                                                                                                              |
| <b>Bio-activity</b>              | Immobilized 41µg S protein trimer/1mg beads can bind the Anti-S1 Antibody with an EC50 of 0.5951µg/mL.                                            |
| <b>Coupled amount of protein</b> | ≈294 pmol (41 µg) SARS-CoV-2 Spike Trimer (B.1.351)/mg beads                                                                                      |
| <b>Capacity</b>                  | >126 pmol (19 µg) Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody/mg beads                                                                        |
| <b>Formulation</b>               | PBS, pH7.4, with 10% Trehalose                                                                                                                    |
| <b>Reconstitution</b>            | 2 mL sterile deionized water (1 mg beads/mL)                                                                                                      |
| <b>Background</b>                | The SARS-CoV-2 Spike Trimer (B.1.351) Coupled Magnetic Beads is produced by                                                                       |

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coupling biotinylated SARS-CoV-2 spike trimer to streptavidin-conjugated magnetic beads. The spike proteins coupled to the beads contain 10 mutations (L18F, D80A, D215G, 242-244del, R246I, K417N, E484K, N501Y, D614G, A701V) identified in the South African variant (known as B.1.351 or 20C/501Y.V2). The pre-coupled beads are ready to use for capturing anti-SARS-CoV-2 antibody or ACE2 protein from your sample with high specificity.

**Application**

This product is intended for immunocapture, biopanning and flow cytometry. This product is produced non-sterile.

**Storage**

Upon receipt, please store the Beads at -20°C for 1 year in lyophilized state.

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