

## Statement

To whom it may concern

We, Wuhan UNscience Biotechnology Co., Ltd, hereby, declare below information.

Our CoV2Ag-25/ SARS-COV-2 Antigen Rapid Test Kit is designated to detect nucleocapsid protein (NP) of SARS-CoV-2 virus. Most SARS-CoV-2 variants mainly have mutation in spike gene, some of the variants are listed below:

**(1) B.1.1.7 (Alpha)**

Location: United Kingdom

Spike Protein Substitutions: Deletion 69-70, Deletion 144, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H

**(2) B.1.351 (Beta)**

Location: S. Africa

Spike Protein Substitutions: D80A, D215G, K417N, E484K, N501Y, L18F, D80A, D215G, L242-244del, R246I, D614G, A701V

**(3) P.1 (Gamma)**

Location: Brazil

Spike Protein Substitutions: E484K, K417T, and N501Y

**(4) B.1.525 (Eta)**

Location: United Kingdom/Nigeria

Spike Protein Substitutions: A67V, 69del, 70del, 144del, E484K, D614G, Q677H, F888L

**(5) B.1.526 (Iota)**

Location: United States

Spike Protein Substitutions: L5F, T95I, (Y144-\*), (F157S\*), D253G, (L452R\*), (S477N\*), E484K, D614G, A701V, (T859N\*), (D950H\*), (Q957R\*)

**(6) B.1.429 (Epsilon)**

Location: United States

Spike Protein Substitutions: S13I, W152C, L452R, D614G

**(7) B.1.427 (Epsilon)**

Location: United States

Spike Protein Substitutions: L452R, D614G

**(8) B.1.167.2 and AY lineages (Delta)**

Location: India

Spike Protein Substitutions: T19R, (V70F\*), T95I, G142D, E156-, F157-, R158G, (A222V\*), (W258L\*), (K417N\*), L452R, T478K, D614G, P681R, D950N

**(9) C.1.2**

Location: S. Africa

Spike Protein Substitutions: R190S, D215G, N484K, N501Y, H655Y, T859N, Y144del, L242-A243del

**(10) C.37 (Lambda)**

Location: Peru

Spike Protein Substitutions: Δ247-253, G75V, T76I, L452Q, F490S, T859N.

**(11) B.1.621 (Mu)**

Location: India

Spike Protein Substitutions: T95I, Y144T, Y145S, ins145N, R346K, E484K, N501Y, D614G, P681H, D950N.

**(12) P.3 (Theta):**

Location: Philippines

Spike Protein Substitutions: L141del, G142del, V143del, A243del, L244del, E484K, N501Y, D614G, P681H, E1092K, H1101Y, V1176F

**(13) P.2 (Zeta)**

Location: Brazil

Spike Protein Substitutions: E484K, D614G, V1176F.

**(14) B.1.1.529 (Omicron)**

Location: S. Africa

Spike Protein Substitutions: P681H, N679K, H655Y, L981F, N969K, Q954H, N856K, D796Y, N764K, H655Y, D614G, T547K, G446S, N440K, K417N, S373P, S371L, G339D, DEL212/212, N211I, DEL143/145, G142D, T95I, DEL69/70, A67V.

Thus, the abovementioned spike protein mutation SARS-CoV-2 variants found in the U.K., S. Africa, Brazil, America, Nigeria, and India are not affecting the detection performance of CoV2Ag-25 (SARS-COV-2 Antigen Rapid Test Kit).

**Wuhan UNscience Biotechnology Co., Ltd.**

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