

SARS-CoV-2 Trimeric Spike South Africa VOC 501.V2 (beta)

Catalogue # P-316-100

Description: Protein contains amino acids 14-1211 and

following mutations: L18F, D80A, D215G, LAL 242-244 del, R246I, K417N, E484K, N501Y, D614G, A701V. Plus two extra amino acids (AS) in N-terminus, trimerization domain and His-6 tag at C-terminus, GS linker between protein and trimerization domain and GSG linker between trimerization domain and His-tag. Furin cleavage

(RRAR) site between Spike S1 and S2 is mutated (GSAS). Also, two stabilizing prolines (PP) have been added to the S2 domain.

Uniprot ID: P0DTC2

MW: 409.7 kDa

Host: CHO-based cell line (expressed by QMCF

Technology)

Purification: Purified by Ni-affinity chromatography and gel-

filtration from serum-free CHO growth media,

sterile filtrated

Purity: >95%

Concentration: 1mg/ml

Buffer: PBS pH 7.4

Endotoxine: NA

Bioproperties: Measured by its binding ability to ACE2 protein

by OCTET RED96 system.

QC: SDS-PAGE, analytical SEC, Octet binding to

ACE2 receptor

Shipping: Shipped on dry ice

Storage: Store at -70°C upon receipt. Recommended to

aliquot into smaller quantities. Avoid repeated

freeze-thaw cycles

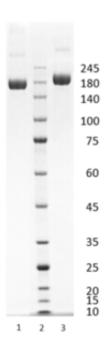


Figure 1. Simply Blue stained SDS-PAGE analysis of SARS-CoV-2 Trimeric Spike South Africa VOC 501.V2. 4-12% gradient gel is used for analysis. Lane 1. 1.3 μg SARS-CoV-2 Trimeric Spike South Africa VOC 501.V2 (-DTT) Lane 2. Protein marker (Smobio) Lane 3. 1.3 μg SARS-CoV-2 Trimeric Spike South Africa VOC 501.V2 (+DTT)

Peak Table

Peak #	RT (min)	Area	Area %
1	12.073	1435.74	4.56
2	13.024	30083.71	95.44

Chromatogram

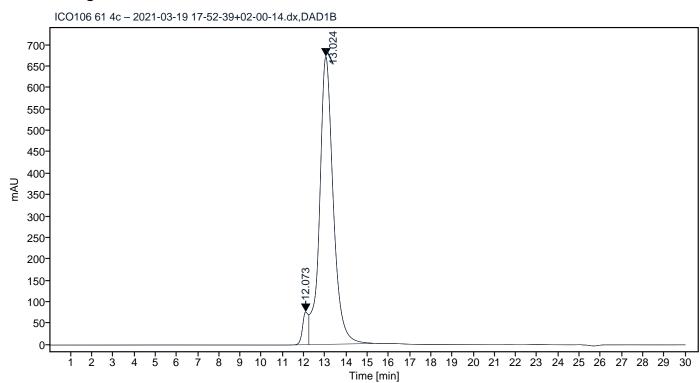


Figure 2. HPLC analytical SEC for final product.

Peak Table

Peak #	RT (min)	Area	Area %
1	12.041	1449.72	5.11
2	13.016	26943.95	94.89

Chromatogram

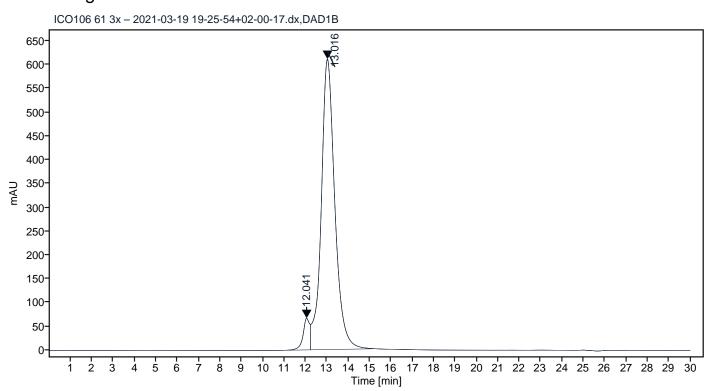


Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

