Certificate of Analysis

Trimeric SARS CoV-2 Spike Protein, Full-length

Lot number: 28702-3029-030
Production date: 07/2020

Product Description

Alternative names	SPIKE_SARS2 Spike glycoprotein
UniProt number	P0DTC2
Protein class	Single span transmembrane protein
Organism	Severe acute respiratory syndrome coronavirus 2 (2019-nCoV) (SARS-CoV-2)
Sequence	Full-length sequence (aa1-1273), furin cleavage site “RRAR” mutated to “GSAG”; C-terminal Rho1D4 tag fused with spacer “GSSG” to protein sequence
Affinity tag	C-terminal Rho1D4
Expression Host	Hek293 Expi cells
Size	1286 amino acids (including Rho1D4 tag and linker) 142114 Da
Buffer composition	20 mM Hepes pH 7.5; 150 mM NaCl, 0.001 % LMNG
Concentration	1.13 mg/ml

Quality Control

Description	Specification	Result
Purity (SDS-PAGE)	>98% as determined by SDS-PAGE, see Fig. 1 B,	conform
Homogeneity	Homogeneous on native Gel, see Fig. 1 A,	conform
Activity	not determined	not determined

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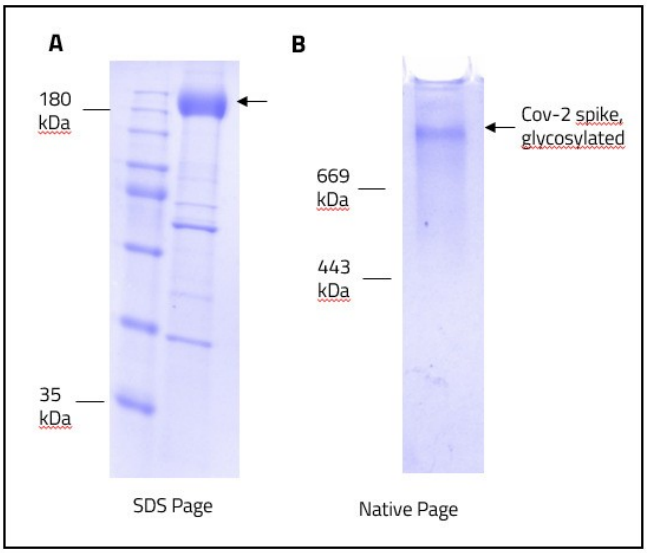


Fig. 1: Size, purity and oligomerization state of CoV-2 spike protein assessed by SDS-PAGE and Native-PAGE.

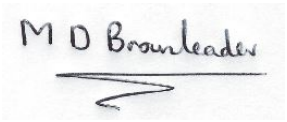
Preparation:

Expression system	Hek293 Expi cells
Purification	Rho1D4 Agarose
Buffer	20 mM HEPES pH 7.5, 150 mM NaCl, 0.001 % LMNG
Form	Liquid
Concentration	1.13 mg/ml

Shipping & Storage

Shipping conditions	Dry ice
Storage conditions	–80°C, avoid freeze-thaw cycles

Signed by: Date:



Dr. Mike Brownleader
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10 July 2020

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