

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description: Seraseq[®] SARS-CoV-2 Mutation RNA Mix
 Material Number: 0740-0075 Batch Number: 10583059
 Material Description: Seraseq SARS-CoV-2 Reference Material consists of three members. Each member contains SARS-CoV-2 mutant RNA mixed with the background of the Wuhan SARS-CoV-2 strain RNA at a 1%, 5%, and 20% variant allele frequency. Each member also contains human total RNA from the GM24385 cell line at the concentration listed below.
 Fill Volume: 25 µL
 Date of Manufacture: 08 Nov 2021 Expiration Date: 27 Oct 2023
 Storage: -70°C
 Nominal value: 25 ng/µL; 5.0 E+06 cp/mL

Total RNA Concentration:

Component	ng/µL	cp/mL
Seraseq SARS-CoV-2 RNA Mix AF 1%	27.0	6.2 E+06
Seraseq SARS-CoV-2 RNA Mix AF 5%	27.5	6.0 E+06
Seraseq SARS-CoV-2 RNA Mix AF 20%	28.2	7.4 E+06

Total RNA concentration determined using Qubit RNA BR Assay.

Concentration Test Method:

Viral cp/mL determined using digital PCR assays run on the BioRad QX-200 digital PCR system in triplicate.

Variant Allele Frequency:

Component	Average Allele Frequency (± 1 SD)
Seraseq SARS-CoV-2 RNA Mix AF 1%	0.9±0.39
Seraseq SARS-CoV-2 RNA Mix AF 5%	3.7±1.2
Seraseq SARS-CoV-2 RNA Mix AF 20%	14.7±4.13

Variant Allele Frequency Test Method:

Roche KAPA RNA HyperCap Kit (KAPA SARS-CoV-2 Target Enrichment Probes). Complete results and testing conditions used available upon request

Approval:



11 Nov 2021

Prepared By

Date