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Product Information

SARS-CoV-2 Inactivated Virus Particles

{AlternativeNames}

Cat. No.: **VLP-053YF**
This product is for research use only and is not intended for diagnostic use.

SARS-CoV-2 Inactivated Virus Particles is chemically modifie to be non-infectious intact viral particles. The inactivation was verified in a standard microbiological growth protocol. Based on our in-house RT-PCR assay to detect the N proteins, it indicates that our product includes 1,000,000 copies per mL.

Product Specifications

Form

Liquid

Alternative Names

Severe acute respiratory syndrome coronavirus 2; SARS-CoV-2; COVID-19; SARS-CoV-2 Virus; COVID-19 Virus

Storage

Stored at 2- 8°C.

Virus Background

Virus Family

Coronaviridae

Virus Species

SARS-CoV-2

Virus Strain

USA- WA1/2020

Virus Overview

SARS-CoV-2 is a positive-sense single-stranded RNA virus (and hence Baltimore class IV) that is contagious in humans. As described by the US National Institutes of Health, it is the successor to SARS-CoV-1, the virus that caused the 2002-2004 SARS outbreak.Taxonomically, SARS-CoV-2 is a virus of the species severe acute respiratory syndrome-related coronavirus (SARSr-CoV). It is believed to have zoonotic origins and has close genetic similarity to bat coronaviruses, suggesting it emerged from a bat-borne virus. Research is ongoing as of February 2020 as to whether SARS-CoV-2 came directly from bats or indirectly through any intermediate hosts. The virus primarily spreads between people through close contact and via respiratory droplets produced from coughs or sneezes. It mainly enters human cells by binding to the angiotensin converting enzyme 2 (ACE2).

Virus Structure

Enveloped, positive-sense, single-stranded RNA virus

Related Disease

Severe acute respiratory syndrome, SARS-CoV-2 Disease, COVID-19

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