

SAFETY DATA SHEET

SARS-COV-2, Isolate USA-WA1/2020 - Washington Strain

Version	Revision Date:	Date of Last issue: 4-13-2023
3.0	4-13-2023	Date of First issue: 3-20-2023

Section 1. Identification

Product Name: **Inactivated** SARS-CoV-2 Isolate USA-WA1/2020 - Washington Strain

GISAID: Lineage A, Clade S

Supplier: University of California, San Diego
9500 Gilman Drive
La Jolla, CA 92093

Characteristics: Highly concentrated **inactivated** SARS-CoV-2 Washington Strain diluted in cell culture media (DMEM + 2% FBS + 10mM HEPES + 50 units/ml Penicillin and 50 µg/ml Streptomycin).

Concentration: After UV-C inactivation ddPCR (RNA) estimate of 2.14E+08 copies of ORF1a/ml, 5.42E+08 copies of N/ml. ELISA (N antigen) estimate of 778 ng/ml N protein.

Limit of Detection:
LoD of 10⁻⁸ on Roche Cobas 6800/8800 when tested immediately (qRT-PCR).
LoD of 10⁻⁷ on Hologic Aptima Panther when tested immediately (TMA).

This virus was obtained from BEI Resources and prepared using resources funded under NIH grant# 1U24LM013755-01.

Acknowledgment for publications should read "The following reagent was deposited by the Centers for Disease Control and Prevention and obtained through BEI Resources, NIAID, NIH: SARS-Related Coronavirus 2, Isolate USA-WA1/2020, NR-52281. This reagent was produced with help from the UC San Diego CALM and EXCITE laboratories and from San Diego Center for AIDS Research (SD CFAR), an NIH-funded program (P30 AI036214), which is supported by the following NIH Institutes and Centers: NIAID, NCI, NHLBI, NIA, NICHD, NIDA, NIDCR, NIDDK, NIGMS, NIMH, NIMHD, FIC, and OAR. We thank NIH RADx-Radical Data Coordination Center (DCC) at University of California San Diego. RADx-rad DCC is funded under NIH grant# 1U24LM013755-01."

Section 2. Hazardous Identification

Classification: This product consists of **inactivated** SARS-CoV-2 Washington Strain diluted in cell culture media (DMEM + 2% FBS + 10mM HEPES + 50 units/ml Penicillin and 50 µg/ml Streptomycin).

Label Elements: This product has been **UV-C-inactivated**. It is not considered a hazardous substance.

Section 3. Composition

Classification: Not a hazardous substance

Chemical Nature: Handle as potentially infectious.

Components: No hazardous ingredients

Section 4. First Aid Measures

General advice: Move out of dangerous area
Do not leave victims unattended
In inhaled: Move to fresh air
Consult a physician after a significant exposure
In skin contact: Rinse well with water
Eye contact: Immediately flush eyes with water
Remove contact lenses
If symptoms persist, contact a physician
If swallowed: Rinse mouth with water
If symptoms, contact a physician

Section 5. Fire-fighting measures

Suitable: Use extinguishing measures
Unsuitable: High volume water jet
Do not discharge into drains

Section 6. Release measures

Personal precautions: Use PPE
Ensure adequate ventilation
Environmental precautions: Do not discharge into drains
Clean up: Soak up with inert absorbent material
Keep in suitable closed containers

Section 7. Handling and storage

Safe handling: Avoid aerosol formation
Avoid contact with skin/eyes
Wear PPE
Smoking/eating/drinking prohibited
Safe storage: Keep containers tightly closed to prevent leaks
Keep upright to prevent leakage
Stability: See usage guidelines

Section 8. Exposure controls and personal protection

Hand protection: Gloves with a thickness of >0.11mm
Eye protection: Face shield or tightly fitting goggles
Hygiene: No eating/drinking/smoking
Wash hands before and after working with

Section 9. Physical and chemical properties

pH: 7.0-7.4
Flammability: Does not sustain combustion
Solubility: water soluble

Section 10. Stability and reactivity

Reactivity: No dangerous reactions under normal conditions
Chemical stability: Stable under normal conditions
Hazardous reactions: No decomposition when used as directed

Section 11. Toxicological information

Acute toxicity: Not classified
Corrosion: Not classified
Respiratory irritation: Not classified
Carcinogenicity: Not classified
Reproduction: Not classified

Section 12. Disposal considerations

Waste: Material must be treated as infectious. Includes disinfection and incineration.
Product should not be allowed to enter drains or contaminate waterways
Send to a licensed waste management company
Packaging: Containers should be taken to an approved waste handling site
Do not re-use empty containers

Section 13. Transport

Not regulated as a dangerous good

Section 14. Regulatory information

Clean air act: Does not contain hazardous air pollutants
Does not contain chemicals listed under the US Clean Air Act
Clean water act: Does not contain chemicals listed under the UC Clean Water Act
State regulations: Follow any state-specific regulations regarding right to know or chemicals of high concern

Section 15: Other information

NFPA: Health	1
Flammability	0
Physical Hazard	0