

SAFETY DATA SHEET

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

Version
2.0

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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 + 1% FBS + 10mM HEPES + 50 units/ml Penicillin and 50 µg/ml Streptomycin).

Concentration: After heat inactivation ddPCR (RNA) estimate of 2.12E+10 copies of ORF1a/ml, 5.04E+10 copies of N/ml. ELISA (N antigen) estimate of 228 ng/ml N protein.

Longitudinal: LoD of 10⁻⁹ on Roche Cobas 6800/8800 when tested immediately (qRT-PCR).
LoD of 10⁻⁸ on Hologic Aptima Panther when tested immediately (TMA).
LoD of 10⁻² on BD Veritor when tested immediately (Antigen testing).

LoD of 10⁻⁹ on Roche Cobas 6800/8800 when tested after 2 weeks at 4°C.
LoD of 10⁻⁸ on Hologic Aptima Panther when tested after 2 weeks at 4°C.
LoD of 10⁻² on BD Veritor when tested after 2 weeks at 4°C.

LoD of 10⁻⁹ on Roche Cobas 6800/8800 when tested after 1 month at -80°C.
LoD of 10⁻⁸ on Hologic Aptima Panther when tested after 1 month at -80°C.
LoD of 10⁻¹ on BD Veritor when tested after 1 month at -80°C.

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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 + 1% FBS + 10mM HEPES + 50 units/ml Penicillin and 50 µg/ml Streptomycin).

Label Elements: This product has been **heat-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