

SAFETY DATA SHEET

SARS-CoV-2, Isolate hCoV-19/USA/CA-SEARCH-59467/2021 (Omicron Variant)

Version	Revision Date:	Date of Last issue: 2-15-2022
1.0	2-15-2022	Date of First issue: 2-15-2022

Section 1. Identification

Product Name: **Inactivated** SARS-CoV-2 Isolate hCoV-19/USA/CA-SEARCH-59467/2021, VOC: **Omicron**

GISAID: lineage BA.1, Clade GRA

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

Characteristics: Highly concentrated **inactivated** SARS-CoV-2 BA.1 diluted in cell culture media (DMEM + 3% FBS + 50 units/ml Penicillin and 50 µg/ml Streptomycin).

Concentration: After heat-inactivation: ddPCR (RNA) estimate of 2.71E+09 copies of ORF1a/ml and 5.48E+09 copies of N/ml. ELISA (protein) estimate of 52.1 ng/ml nucleocapsid protein.

Limit of Detection:

LoD of 10⁻⁸ on Roche Cobas 6800/8800 when tested immediately (qRT-PCR).

LoD of 10⁻⁸ on Hologic Aptima Panther when tested immediately (TMA).

The original clinical isolate sequence can be accessed at GISAID accession name: EPI_ISL_8186377
This virus was obtained from UCSD: Acknowledgment for publications should read "The following reagent was obtained from UCSD: SARS-Related Coronavirus 2, Isolate hCoV-19/USA/CA-SEARCH-59467/2021 (Lineage BA.1; Omicron Variant), contributed by Dr. Aaron Carlin and the UCSD CALM and EXCITE laboratories."

Section 2. Hazardous Identification

Classification: This product consists of **inactivated** SARS-CoV-2 BA.1 Strain diluted in cell culture media (DMEM + 3% FBS + 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