SAFETY DATA SHEET

SARS-CoV-2, Isolate hCoV-19/USA/CA-SEARCH-212968/2022 (Omicron Variant)

Version	Revision Date:	Date of Last issue: 4-13-2023
1.0	4-13-2023	Date of First issue: 4-13-2023

Section 1. Identification

Product Name: **Inactivated** SARS-CoV-2 **Isolate hCoV-19/USA/CA-SEARCH-212968/2022, VOC: Omicron**

GISAID: lineage BQ.1, Clade GRA

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

Characteristics: Highly concentrated **inactivated** SARS-CoV-2 BQ.1 diluted in cell culture media (DMEM + 2% FBS + 10mM HEPES + 50 units/ml Penicillin and 50 μg/ml Streptomycin).

Concentration: After heat-inactivation: ddPCR (RNA) estimate of 3.39E+09 copies of ORF1a/ml and 3.84E+09 copies of N/ml.

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).

Longitudinal:

LoD of 10^{-7} 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^{-7} on Roche cobas 6800/8800 when tested after 3 month at -80°C.
LoD of 10^{-7} on Hologic Aptima Panther when tested after 3 month at -80°C.

The original clinical isolate sequence can be accessed at GISAID accession ID: EPI_ISL_16102433.
This virus was obtained from UC San Diego: Acknowledgment for publications should read "The following reagent was obtained from UC San Diego: SARS-Related Coronavirus 2, Isolate hCoV-19/USA/CA-SEARCH-212968/2022 (Lineage BQ.1, Omicron Variant), contributed by Dr. Aaron Carlin and Dr. Alex Clark with the help of the UC San Diego CALM and EXCITE laboratories. This reagent was produced with help from the 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 BQ.1 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 **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