

SAFETY DATA SHEET

SARS-CoV-2, Isolate hCoV-19/Japan/TY7-503/2021 (P.1 or 20J/501Y.V3)

Version
1.0

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7-7-2021

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Section 1. Identification

Product Name: **Inactivated** SARS-CoV-2 Isolate hCoV-19/Japan/TY7-503/2021

GISAID: lineage P.1 (or 20J/501Y.V3) and clade GR

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

Characteristics: Highly concentrated **inactivated** SARS-CoV-2 P.1 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 1.92E+09 copies of ORF1a/ml and 3.80E+09 copies of N/ml.

Longitudinal: LoD of 10⁻⁸ on Roche Cobas 6800 when tested immediately (qRT-PCR).
LoD of 10⁻⁷ on Hologic Aptima Panther when tested immediately (TMA).
LoD of 10⁰ on BD Veritor when tested immediately (Antigen testing).

LoD of 10⁻⁸ on Roche cobas 6800 when tested after 1 month at -80°C.
LoD of 10⁻⁷ on Hologic Aptima Panther when tested after 1 month at -80°C.
LoD of 10⁰ on BD Veritor when tested after 1 month at -80°C.

This virus was originally obtained from BEI Resources: Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: SARS-Related Coronavirus 2, Isolate hCoV-19/Japan/TY7-503/2021 (Brazil P.1), NR-54982, contributed by National Institute of Infectious Diseases."

Section 2. Hazardous Identification

Classification: This product consists of **inactivated** SARS-CoV-2 P.1 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