

## SAFETY DATA SHEET

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

Version	Revision Date:	Date of last issue: 7-7-2021
1.0	7-7-2021	Date of First issue: 7-7-2021

#### 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 UV-inactivation: ddPCR (RNA) estimate of 4.16E+07 copies of ORF1a/ml and 1.36E+08 copies of N/ml.

Longitudinal: LoD of 10<sup>-7</sup> on Roche Cobas 6800 when tested immediately (qRT-PCR).  
LoD of 10<sup>-7</sup> on Hologic Aptima Panther when tested immediately (TMA).  
LoD of 10<sup>0</sup> on BD Veritor when tested immediately (Antigen testing).

LoD of 10<sup>-7</sup> on Roche cobas 6800 when tested after 1 month at -80°C.  
LoD of 10<sup>-6</sup> on Hologic Aptima Panther when tested after 1 month at -80°C.  
LoD of 10<sup>0</sup> 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 **UV-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