

SAFETY DATA SHEET

SARS-COV-2 Isolate hCoV-19/South Africa/KRISP-K005325/2020 B.1.351 (South African)

Version	Revision Date:	Date of last issue: 4-28-2021
1.0	4-28-2021	Date of First issue: 4-28-2021

Section 1. Identification

Product Name: **Inactivated** SARS-CoV-2 Isolate hCoV-19/South Africa/KRISP-K005325/2020

GISAID: lineage B.1.351 and clade GH

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

Characteristics: Highly concentrated **inactivated** SARS-CoV-2 B.1.351 Strain diluted in cell culture media (DMEM + 1% FBS + 10mM HEPES + 50 units/ml Penicillin and 50 µg/ml Streptomycin).

Concentration: After UV-C inactivation - ddPCR (RNA) estimate of 5.60e7 copies of ORF1a/ml and 2.77e8 copies of N/ml.

Longitudinal: LoD of 10⁻⁷ on Roche Cobas 6800/8800 when tested immediately (qRT-PCR).
LoD of 10⁻⁶ on Hologic Aptima Panther when tested immediately (TMA).
LoD of 10⁻² on BD Veritor when tested immediately (Antigen testing).

PENDING on Roche Cobas 6800/8800 when tested after 1 month at -80°C.

PENDING on Hologic Aptima Panther when tested after 1 month at -80°C.

PENDING BD Veritor when tested after 1 month at -80°C.

Section 2. Hazardous Identification

Classification: This product consists of **inactivated** SARS-CoV-2 B.1.351 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-C-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