

# SAFETY DATA SHEET

SDS DATE: September 30, 2021

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** SARS-CoV-2 IgG ELISA Kit  
**PRODUCT CODES:** Cat# E4901-100  
**RESTRICTIONS ON USE:** For laboratory research purposes. Not for drug or household use.  
**MANUFACTURER:** BioVision, Inc.  
**ADDRESS:** 155 S. Milpitas Blvd. Milpitas, CA 95035  
**EMERGENCY PHONE:** 858-373-8066  
**OTHER CALLS:** 408-493-1800  
**FAX PHONE:** 408-493-1801  
**EMAIL:** [sds@biovision.com](mailto:sds@biovision.com)

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Description	Volume	Safety Information
Spike Protein-Coated ELISA Plate	--	8 x 12 Strips	No hazards
Wash Buffer (10X)	Liquid	50 ml	No hazards
Sample Diluent	Liquid (Contains Proclin 300)	50 ml	See Below
Anti-IgG-HRP Conjugate (10X)	Liquid (contains Glycerol)	50 µl	See Below
Positive Control Serum	Liquid	30 µl	No hazards
Negative Control Serum	Liquid	60 µl	No hazards
TMB Substrate	Liquid	10 ml	No hazards
Stop Solution	Liquid (contains HCl)	10 ml	See Below
Plate Sealing Film	--	2	No hazards

## SECTION 3: HAZARDS IDENTIFICATION

Component	CAS Number	EC-No.	Molecular Weight	Chemical Formula	Concentration
Glycerol	56-81-5	200-289-5	92.09	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub> OH	<5%
Hydrochloric acid	7647-01-0	231-595-7	36.46	HCl	<15%
Proclin 300	96118-96-6	--	--	--	<1%

### Proclin 300:

#### Emergency Overview

**GHS Classification:** Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318

Skin sensitization (Category 1), H317

Short-term (acute) aquatic hazard (Category 2), H401

Long-term (chronic) aquatic hazard (Category 2), H411

#### GHS Label elements, including precautionary statements



**Pictogram:**

**Signal word:**

**Hazard statement(s):**

Danger

**Hazard statement(s)**

H302 + H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects

**Precautionary statement(s):** P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

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P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water or shower.  
P304 + P340 + P310 IF INHALED:  
Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
P391 Collect spillage.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

## HMIS Classification

Health hazard: 3  
Chronic health hazard: \*  
Flammability: 1  
Physical hazards: 0

## NFPA Rating

Health hazard: 3  
Fire: 1  
Reactivity hazard: 0

## Potential Health Effects

**Inhalation:** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Skin:** May be harmful if absorbed through skin. Causes skin burns.

**Eyes:** Causes eye burns.

**Ingestion:** May be harmful if swallowed.

**Aggravated medical condition:** May provoke asthmatic response in persons with asthma who are sensitive to airway irritants.

## Glycerol:

### Emergency Overview

**OSHA Hazards:** Target Organ Effect

**Target Organs:** Kidney

**GHS Classification:** Skin irritation (Category 3)  
Eye irritation (Category 2B)

### GHS Label elements, including precautionary statements

**Pictogram:** none

**Signal word:** none

**Hazard statement(s):** none

**Precautionary statement(s):** P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## HMIS Classification

Health hazard: 1  
Chronic Health Hazard: \*  
Flammability: 1  
Physical hazards: 0

## NFPA Rating

Health hazard: 1  
Fire: 1  
Reactivity Hazard: 0

## Potential Health Effects

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed.

## HCl:

### Emergency Overview

**GHS Classification:** Corrosive to metals (Category 1), H290

Skin corrosion (Category 1A), H314

Eye irritation (Category 2A), H319

Short-term (acute) aquatic hazard (Category 3), H402

### GHS Label elements, including precautionary statements

**Pictogram:**

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**Signal word:** Danger

**Hazard statement(s):** H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H402 Harmful to aquatic life.

**Precautionary statement(s):** P234 Keep only in original container.  
P260 Do not breathe dust or mist.  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
P390 Absorb spillage to prevent material damage.  
P405 Store locked up.  
P406 Store in corrosive resistant container with a resistant inner liner.  
P501 Dispose of contents/ container to an approved waste disposal plant.

## HMIS Classification

**Health hazard:** 2  
**Chronic Health Hazard:** \*  
**Flammability:** 1  
**Physical hazards:** 0

## NFPA Rating

**Health hazard:** 1  
**Fire:** 1  
**Reactivity Hazard:** 0

## Potential Health Effects

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin:** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes:** May cause eye irritation.  
**Ingestion:** May be harmful if swallowed.

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## SECTION 4: FIRST AID MEASURES

**General advice** Move out of dangerous area.  
**If inhaled** If breathed in, move person into fresh air. If not breathing, give artificial respiration.  
**In case of skin contact** Wash off with soap and plenty of water.  
**In case of eye contact** Flush eyes with water as a precaution.  
**If swallowed** Never give anything by mouth to an unconscious person. Rinse mouth with water.

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## SECTION 5: FIRE-FIGHTING MEASURES

### Proclin 300:

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
**Special hazards arising from the substance or mixture:** Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride gas  
**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

### Glycerol:

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
**Special hazards arising from the substance or mixture** Carbon oxides  
**Advice for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.  
**Further information** No data available

### HCl:

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
**Special hazards arising from the substance or mixture** Carbon oxides  
**Advice for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.  
**Further information** No data available

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust

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**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## SECTION 7: HANDLING AND STORAGE

**Handling** Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

**Storage** Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers. Recommended storage temperature: -4°C.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Proclin 300:

#### **Control parameters:**

**Ingredients with workplace control parameters:** Contains no substances with occupational exposure limit values.

#### **Exposure controls:**

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

#### **Personal protective equipment**

##### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### **Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### **Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### **Skin and Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice

### Glycerol:

#### **Appropriate engineering controls**

General industrial hygiene practice.

#### **Personal protective equipment**

##### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Respiratory protection**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### **Control of environmental exposure**

No special environmental precautions required.

### HCl:

Components	CAS-No.	Value	Control parameters	Basis
HCl	1310-73-2	CEIL	2 mg/m <sup>3</sup>	USA. ACGIH Threshold Values (TLV)
		C	2 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	2 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		C	2 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Eye, skin, & Upper Respiratory Tract irritation			
		C	1 ppm 1.4 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Proclin 300	Glycerol	Hydrochloric acid
Appearance	Liquid	Clear liquid	Pellets

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pH:	4.1 at 100 g/l	5.5-8	No data available
Water Solubility:	No data available	Soluble	No data available
Other Solubility:	No data available	No data available	No data available
Boiling Point (°C):	189 °C 372 °F	182 °C (360 °F)	No data available
Melting Point (°C):	-40 °C (-40 °F)	20 °C (68 °F)	No data available
Flash Point (°C):	118 °C (244 °F)-closed cap	160 °C (320 °F)	No data available
Ignition Temperature (°C):	No data available	370 °C (698 °F)	No data available
Density:	1.03 g/cm3	1.25 g/ml	No data available

## SECTION 10: STABILITY AND REACTIVITY

Property	Proclin 300	Glycerol	Hydrochloric acid
Chemical stability:	Stable under recommended storage conditions.		
Conditions to avoid:	No data available	No data available	No data available
Materials to avoid:	No data available	Strong bases, strong oxidizing agents	Strong oxidizing agents
Hazardous decomposition products:	No data available	Carbon oxides	No data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### Proclin 300:

Acute toxicity: LD50 Oral - Rat - 862 mg/kg  
LD50 Dermal - Rabbit - 2,800 mg/kg  
No data available

Skin corrosion/irritation: Skin - Rabbit  
Result: Corrosive

Serious eye damage/eye irritation: Eyes - rabbit  
Result: Corrosive to eyes

Respiratory or skin sensitization: - Guinea pig  
Result: May cause sensitization by skin contact.

Germ cell mutagenicity: no data available

### Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity – single exposure (GHS): no data available

Specific target organ toxicity – repeated exposure (GHS): no data available

Aspiration hazard: no data available

Synergistic effects: no data available

Additional information: RTECS: Not available

### Glycerol:

Acute toxicity: LD50 Dermal – rabbit – >10,000 mg/kg

Irritation and corrosion: no data available

Sensitization: no data available

Germ cell mutagenicity: no data available

### Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

### Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Synergistic effects: no data available

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**Signs and Symptoms of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional information:** RTECS: MA8050000



## **HCl:**

**Acute toxicity:** no data available

**Skin corrosion/irritation:** Skin - rabbit

Result: Causes severe burns. - 24 h

**Serious eye damage/eye irritation:** Eyes - rabbit

Result: Corrosive - 24 h

**Respiratory or skin sensitization:** Will not occur

**Germ cell mutagenicity:** no data available

## **Carcinogenicity:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** no data available

**Teratogenicity:** no data available

**Specific target organ toxicity – single exposure (GHS):** no data available

**Specific target organ toxicity – repeated exposure (GHS):** no data available

**Aspiration hazard:** no data available

**Synergistic effects:** no data available

**Additional information:** RTECS: WB4900000

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## SECTION 12: ECOLOGICAL INFORMATION

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### **Proclin 300:**

**Ecotoxicity:** No data available

**Persistence and degradability:** no data available

**Toxicity:** no data available

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

### **Glycerol:**

**Persistence and degradability:** no data available

**Toxicity:** no data available

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** no data available

**Other adverse effects:** no data available

### **HCl:**

**Persistence and degradability:** no data available

**Toxicity:** no data available

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** no data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging:** Dispose of as unused product.

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## SECTION 14: TRANSPORT INFORMATION

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### **Proclin 300:**

**DOT (US):** UN number: 3265                      Class: 8                      Packing group: II                      Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Mixture of 5-Chloro-2- methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1))

Reportable Quantity (RQ):              Poison Inhalation Hazard: No

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**IMDG:** UN number: 3265 Class: 8 Packing group: II EMS-No: F-A, S-B Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Mixture of 5- Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1))  
Marine pollutant : yes  
**IATA:** UN number: 3265 Class: 8 Packing group: II Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Mixture of 5-Chloro-2- methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1))

## Glycerol:

**DOT (US):** Not dangerous goods.

**IMDG:** Not dangerous goods.

**IATA:** Not dangerous goods.

## HCl

**DOT (US):** UN number: 1823 Class: 8 Packing group: II Proper shipping name: HCl, solid Reportable Quantity (RQ): 1000 lbs Marine pollutant: No Poison Inhalation Hazard: No

**IMDG:** UN number: 1823 Class: 8 Packing group: II EMS-No: F-A, S-B Proper shipping name: HCL, SOLID Marine pollutant: No

**IATA:** UN number: 1823 Class: 8 Packing group: II Proper shipping name: HCl, solid

## SECTION 15: REGULATORY INFORMATION

**SARA 302 Components:** No components are subject to reporting levels established by SARA Title III, Section 302


**SARA 313 Components:** No components are subject to reporting levels established by SARA Title III, Section 313

**SARA 311/312 Hazards:** HCl, Acute Health Hazard; Glycerol: Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components:** HCl, CAS-No. 1310-73-2; Revision Date: 2007-03-01 ; Glycerol, CAS-No. 56-81-5; Revision Date: 2007-03-01

**Pennsylvania Right To Know Components:** HCl, CAS-No. 1310-73-2; Revision Date: 2007-03-01; Glycerol, CAS-No. 56-81-5; Revision Date: 2007-03-01

**New Jersey Right To Know Components:** HCl, CAS-No. 1310-73-2; Revision Date: 2007-03-01; Glycerol, CAS-No. 56-81-5; Revision Date: 2007-03-01

**California Prop. 65 Components:**  WARNING: This product can expose you to chemicals including TMB, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## EU regulations

Component	Risk Phrases	Safety Phrases
HCl	--	--
Proclin 300	--	--
Glycerol	--	S24/25

## SECTION 16: OTHER INFORMATION:

### DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BioVision, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.