



## MATERIAL SAFETY DATA SHEET

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

**Product name:** COVID-19 Antigen Rapid Test Cassette

**Brand:** CLUNGENE

**Manufacturer:** Hangzhou Clongene Biotech Co., Ltd.

### SECTION 2 HAZARDS IDENTIFICATION

**Hazard classification according to GHS:** The product is not dangerous and it has no hazardous classification.

**Label elements: Hazard pictograms:** None, **Signal word:** None.

**Hazard statements:** None

**Precautionary statements:** Keep container tightly closed. IF ON SKIN Wash with soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization:** Substances

List of ingredients

Component	CAS #	% W/V
Sample pad	N/A	<0.1%
Colloidal gold dye pad	N/A	<0.1%
Plastic card board	N/A	96.50%
PVC	9002-86-2	>2.8%
Acrylic Acrylate	7910-7	<1%
Nitrocellulose	9004-70-0	>0.008%
anti-SARS-CoV-2 nucleocapsid protein monoclonal antibody	N/A	<3%
SARS-CoV-2 nucleocapsid protein monoclonal antibody	N/A	<3%
Disodium hydrogen phosphate	10039-32-4	<0.5%
Sodium dihydrogen phosphate	13472-35-0	<0.1%
NaCl	7647-14-5	<1%
Water	7732-18-5	> 95%
Cellulose microcrystalline	113669-95-7	>0.5%



Fiberglass	65997-17-3	>0.24%
Silica gel	112945-52-5	>0.13%
Poly(Ethylene Terephthalate)	25038-59-9	N/A
Aluminium	7429-90-5	N/A
Polypropylene	N/A	N/A

The unit does not contain any human source material.

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#### SECTION 4 FIRST AID MEASURES

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**Description of first aid measures:**

**General advice:** Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

**Inhalation:** Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen.

**Ingestion:** May be harmful if swallowed in large quantity. Induce vomiting immediately as directed by medical personnel.

**Skin Contact:** Wash off with plenty of water, take off contaminated clothing and shoes immediately.

**Eye Contact:** Wash with running water or saline, Seek medical attention if necessary.

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#### SECTION 5 FIREFIGHTING MEASURES

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**Extinguishing Media:** Water, carbon dioxide, multipurpose dry chemical or halon-fire extinguisher.

**Unusual Fire and Explosion Hazards:** The nitrocellulose membrane is classified as a flammable solid. Keep away from excessive heat, fire or flame.

**Special Protective Equipment for Fire-fighter:** Wear self-contained breathing apparatus for fire fighting if necessary.

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#### SECTION 6 ACCIDENTAL RELEASE MEASURES

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**Personal precautions, protective equipment and emergency procedures:** Take proper precautions to minimize exposure by using appropriate personal protective equipment. Shut off all sources of ignition.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided.

**Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and remove

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#### SECTION 7 HANDLING AND STORAGE

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**Precautions for handling:** Avoid contact between test area and skin, eyes or clothing. Wash thoroughly after handling.

**Information about protection against explosions and fires:** This product is not flammable

**Precautions for storage:** Store at 4- 30°C in original sealed package.

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#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Occupational Exposure Limits:** There are no established exposure limits for this product, nor indicated for any ingredients.

**General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Follow the usual biosafety practices for handling potentially infectious



materials.

**Engineering Controls:** Minimize any anticipated skin and eye contact with test strip.

**Eye Protection:** Face shield and safety glasses

**Respiratory Protection:** Inhalation not anticipated in intended use. Respiratory protection not necessary.

**Skin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact

**Hand Protection:** Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), USF739 or AS/NZS 2161.1 standard.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance, Color, Odor:** Flat, white plastic housing containing white, narrow membrane test strip; odorless.

**pH:** no data available

**Boiling Point:** no data available

**Melting Point:** no data available

**Flash Point:** 200° C (nitrocellulose membrane)

**Ignition temperature:** no data available

**Low Explosion Limit:** no data available

**High Explosion Limit:** no data available

**Vapor pressure (kPa):** No data available.

**Vapor density (air = 1):** No data available

**Relative density (water = 1):** No data available

**Solubility (mg/L):** No data available.

**Octanol/water partition coefficient:** No data available

**Auto-ignition temperature (°C):** No data available

**Decomposition temperature (°C):** No data available

**Viscosity:** No data available

**Others: Resistance value:** No data available

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## SECTION 10 STABILITY AND REACTIVITY

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**Stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** No data available.

**Incompatible materials:** Strong oxides, strong acids, strong bases.

**Hazardous decomposition products:** Under norm conditions of storage and use, hazardous decomposition products should not be produced.

**Conditions to Avoid:** Excessive heat, direct sunlight (nitrocellulose)

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## SECTION 11 TOXICOLOGICAL INFORMATION

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**Acute Toxicity: LD/LC50 values that are relevant for classification:** no data available

**Sensitisation:** no data available

**Chronic Toxicity (Target Organ Effects):** no data available



**Reproductive and Developmental Toxicity:** no data available

**Carcinogenicity:** 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.

**Potential Health Effects:**

Inhalation: no data available

Ingestion: Toxic if swallowed.

Skin: Toxic if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

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## SECTION 12 ECOLOGICAL INFORMATION

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**Toxicity:** no data available

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**Persistence and Degradability:** no data available

**Ecotoxicity effects:** no data available

**Further Information on Ecology:** no data available

**Other adverse effects:** no data available

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## SECTION 13 DISPOSAL CONSIDERATIONS

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**Disposal considerations:** Recycle as much as possible. If it cannot be recycled, use incineration for disposal. Do not dispose of this product by means of discharge to the sewer.

**Waste chemicals:** Contaminated packaging: Residual hazards may still exist after the contents of the packaging are emptied. Keep away from heat and sources of ignition. If possible, recycle them to the supplier for recycling.

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## SECTION 14 TRANSPORT INFORMATION

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**Land Transport (ADR/RID):** Not dangerous goods.

**Air Transport (ICAO/IATA):** Not dangerous goods.

**Maritime Transport (IMO-IMDG):** Not dangerous goods.

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## SECTION 15 REGULATORY INFORMATION

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**SARA 302 Components:**No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:**This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**EINECS , TSCA , DSL IECSC , NZioC , PICCS ,KECL , AICS Status:** This product does not contain any hazardous ingredients above trigger levels.

**EEC Classification and Labeling:** None required.

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## SECTION 16 OTHERS

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The above information is believed to be correct but does not purport to be allinclusive 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. Hangzhou Clongene Biotech Co., Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.