

# MATERIAL SAFETY DATA SHEET

## SECTION 1 COMPANY AND MATERIAL IDENTIFICATION

### Manufacturer (Supplier):

Dongguan CapitalBio Genomics Co., Ltd..  
Building 11, Guantai Biotechnology Cooperation Incubation Center, No.1  
Taoyuan Road, Songshan Lake Hi-Tech Industrial Development Zone, Dongguan, PRC.

## PRODUCT NAME(S): Nucleic Acid Extraction / Purification Kit

## SECTION 2 PRODUCT COMPOSITIONS

### List of ingredients

No.	Components	Specifications	QTY	Compositions
1	Magnetic bead G	4.8mL/tube	1 tube	Silicon dioxide magnetic bead, sodium azide
2	Protease K	64mg/tube	1 tube	Protease K
3	Protease K solving liquid	3.5mL/tube	1 tube	Tris(hydroxymethyl)methyl aminomethane, glycerin, calcium chloride
4	Lysate MLK	80mL/tube	1 tube	Tris(hydroxymethyl)methyl aminomethane, ethylenediamine tetraacetic acid, guanidine isothiocyanate, polyoxyethylene ether, isopropanol
5	Cleaning solution 1	80mL/tube	1 tube	Guanidine isothiocyanate, triton X-100, Tris(hydroxymethyl)methylamin omethane, EDTA, ethanol
6	Cleaning solution 2	32mL/tube	1 tube	Tris(hydroxymethyl)methylamin omethane, sodium chloride, sodium azide
7	Eluent AE	9mL/tube	1 tube	Tris(hydroxymethyl)methylamin omethane, EDTA

## SECTION 3 HEALTH HAZARDS

**WARNING STATEMENT:** Signs of “The processed products are used for clinical in vitro detection” on product manual.

**Potential Routes of Exposure:** No hazardous exposures have been described or anticipated under such conditions of usage in the related product literature.

**Eye:** None known.

**Skin:** None known.

**Inhalation:** None known.

**Ingestion:** None known.

**Chronic Toxicity:** None known.

**Reproductive and Developmental Toxicity:** The components of this product are not considered reproductive or developmental toxins.

**Carcinogenicity:** None of the components of this product is listed by NTP, IARC, or OSHA as a carcinogen.

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## SECTION 4 FIRE FIGHTING MEASURES

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**Unusual Fire and Explosion Hazards:** None.

**Hazardous Combustion Products:** Oxides of carbon and nitrogen.

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

**Special Fire Fighting Equipment:** Wear full protective clothing and NIOSH/MSHA-approved positive pressure, self-contained breathing apparatus. Thoroughly wash all equipment after use.

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## SECTION 5 ACCIDENTAL RELEASE MEASURES

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**Personal Precautions:** Take proper precautions to minimize exposure by using appropriate personal protective equipment.

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## SECTION 6 HANDLING and STORAGE

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Avoid contact the test area and test region with skin, eyes or clothing.

Protease K and magnetic bead G are stored at 2°C~8°C. Protease K solving liquid, lysate MLK, cleaning solution 1, cleaning solution 2 and eluent AE reagent are stored at room temperature (15°C~30°C) in a dry place. Proteinase K solution with Proteinase K solving liquid is stored at -30°C~-10°C

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## SECTION 7 EXPOSURE CONTROL and PERSONAL PROTECTION

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

**Eye and Face Protection:** Follow standard laboratory procedure; wear safety glasses with side shields or full face shield if eye contact is likely. The choice of protection should be based on the potential for exposure to the eyes and face.

**Respiratory Protection:** Inhalation not anticipated in intended use. Respiratory protection is not necessary under such circumstance.

**Skin Protection:** Do follow standard laboratory procedure, wear gloves, lab coat, or other protective garment if skin contact is likely. The choice of skin protection should be based on the job activity and potential for exposure to the skin.

**Engineering Controls:** Minimize any anticipated skin and eye contact with reagent Components.

**Other:** Follow standard laboratory procedure, wash hands immediately after handling this material (especially before eating, drinking or smoking).

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## SECTION 8 PHYSICAL and CHEMICAL PROPERTIES

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**Appearance:** square paper housing containing tubes containing liquid.

**PH:** Not applicable.

**Boiling Point:** Not applicable.

**Melting Point:** Not applicable.

**Molecular Weight:** Not available.

**Flash Point:** Not applicable.

**Auto flammability:** Not likely under nature condition and environment.

**Explosive Properties:** None.

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**Oxidize Properties:** None.

**Vapor Pressure (mmHg & temp.):** Nil.

**Specific Gravity (H<sub>2</sub>O=1):** Not available.

**Solubility:** Water: reagents: soluble;

Fat: Not available.

**Partition Coefficient:** Not available.

**Percent Volatile (%):** Nil.

**Vapor Density (air=1):** Nil.

**Evaporation (Butyl Acetate=1):** Nil.

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### SECTION 9 STABILITY AND REACTIVITY

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**Stability:** Stable under normal conditions of use. Hazardous polymerization is not expected to occur.

**Hazardous Decomposition Products:** Oxides of carbon and nitrogen.

**Conditions to Avoid:** Excessive heat, direct sunlight.

**Incompatibility:** Incompatible with strong acids or alkalis.

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### SECTION 10 TOXICOLOGICAL INFORMATION

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See Section 3 for Additional Information on Health Hazards.

**Inhalation:** None known.

**Skin (Irritancy and Acute Toxicity):** None known.

**Eye (Irritancy and Acute Toxicity):** None known.

**Ingestion:** None known.

**Chronic Toxicity (Target Organ Effects):** None known.

**Carcinogenicity:** None.

**Reproductive and Developmental Toxicity:** None.

**Mutagenicity:** None.

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### SECTION 11 ECOLOGICAL INFORMATION

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**Persistence and Degradability:** No data available.

**Aquatic Toxicity:** No data available for this product.

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### SECTION 12 DISPOSAL CONSIDERATIONS

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Dispose of waste materials according to prescribed national and local regulations.

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### SECTION 13 TRANSPORT INFORMATION

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**Land Transport (ADR/RID):** Not regulated.

**Air Transport (ICAO/IATA):** **Part A of Kit** According to the IATA Dangerous Goods Regulations, it is classified as Class 9, UN3316. **Part B of Kit** Not regulated.

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**Maritime Transport (IMO-IMDG):** Not regulated.

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## SECTION 14 REGULATORY INFORMATION

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**EINECS Status:** This product does not contain any hazardous ingredients above trigger levels.

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

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## SECTION 15 OTHER INFORMATION

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The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it shall make their own determination of the effects, properties, and protections which pertain to their particular conditions.

No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the material, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material.