

MATERIAL SAFETY DATA SHEET

SECTION 1 COMPANY AND MATERIAL IDENTIFICATION

Manufacturer (Supplier):

CapitalBio Genomics Co., Ltd.

Building11, NO.1 Taoyuan Road , Songshan Lake Park, Dongguan, Guangdong, China, 523808

PRODUCT NAME(S):

Fetal Aneuploidies (Trisomy 21, Trisomy 18 and Trisomy 13) Detection Kit (Semiconductor Sequencing)

SECTION 2 PRODUCT COMPOSITIONS

List of ingredients

Kit components	Components Name	Main Components	160 tests /Kit	
			Marked capacity	Qty
Kit A	End Repair Buffer	Tris-HCl, MgCl ₂ , KCl, dNTP	800µL/tube	1 tube
	End Repair Enzyme	PNK, DNA polymerase, Glycerin	240µL/ tube	1 tube
	DNA Ligase Enzyme	DNA polymerase, Glycerin	160µL/tube	1 tube
	Ligase Buffer	Tris-HCl, MgSO ₄ , PEG	800µL/tube	1 tube
	PCR Buffer	Tris-HCl, MgCl ₂ , KCl, dNTP, DNA polymerase	1150µL/tube	3 tubes
	Primer Mix	Nucleotide Sequence	288µL/tube	1 tube
	Qpcr buffer	Fluorescent dyes, dNTP, MgCl ₂ , DNA polymerase	1000µL/tube	5 tubes
	Qpcr Primer	Nucleotide	500µL/tube	1 tube
	Standard S1~Standard S4	Nucleotide	60µL/tube	4 tubs
	Positive Control sample	Positive genomic nucleotide sequence of trisomy 21, trisomy 18 and trisomy 13, plasma	400µL/tube	1 tube
	Negative Control sample	Plasma	400µL/tube	1 tube
	Adapter	Nucleotide Sequence	288µL/tube	1 tube
	BarcodeA01-A48	Nucleotide Sequence	6µL/tube	48 tubes
Kit B	Beads1	Beads	12 mL/bottle	1 bottle
	Beads2	Beads	36 mL/bottle	1 bottle
	TE buffer	Tris-HCl, EDTA	22 mL/bottle	1 bottle

SECTION 3 HEALTH HAZARDS

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

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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.

SECTION 4 FIRE FIGHTING MEASURES

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.

SECTION 5 ACCIDENTAL RELEASE MEASURES

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

SECTION 6 HANDLING and STORAGE

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

Kit A is stored at -30°C ~ -10°C; Kit B is stored at 2°C ~ 8°C.

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).

SECTION 8 PHYSICAL and CHEMICAL PROPERTIES

Appearance, Color, Odor: square, green paper housing containing tubes containing liquid; odorless.

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.

Oxidize Properties: None.

Vapor Pressure (mmHg & temp.): Nil.

Specific Gravity (H₂O=1): Not available.

Solubility: Water: reagents: soluble

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Fat: Not available.

Partition Coefficient: Not available.

Percent Volatile (%): Nil.

Vapor Density (air=1): Nil.

Evaporation (Butyl Acetate=1): Nil.

SECTION 9 STABILITY AND REACTIVITY

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.

SECTION 10 TOXICOLOGICAL INFORMATION

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.

SECTION 11 ECOLOGICAL INFORMATION

Persistence and Degradability: No data available.

Aquatic Toxicity: No data available for this product.

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SECTION 12 DISPOSAL CONSIDERATIONS

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

SECTION 13 TRANSPORT INFORMATION

Land Transport (ADRIRID): Not regulated.

Air Transport (ICAO/IATA): Not regulated.

Maritime Transport (IMO-IMDG): Not regulated.

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SECTION 14 REGULATORY INFORMATION

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

EEC Classification and Labeling: None required.

SECTION 15 OTHER INFORMATION

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.