

Material Safety Data Sheet

ZiXpress® Whole Blood Genomic DNA Extraction Kit

Section 1. Identification of the substance and of the company

Product Name ZiXpress® Whole Blood Genomic DNA Extraction Kit

Product Code ZP02203

Manufacturer Zinexts Life Science Corp.

16F., No. 93, Sec. 1, Xintai 5th Rd., Xizhi Dist.,

New Taipei City 221416, Taiwan (R.O.C.)

Tel: +886 2 2246 3579

Fax: +886 2 2243 8570

Emergency Phone # Contact your local hazardous material control center.

Section 2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Resp. Sensitization (Category1), H334

Label elements, including precautionary statements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Pictograms:



Signal Word: Warning, Danger

Hazard Statements :

H302 Harmful if Swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements:

P264 Wash hands thoroughly after handling.

P264+P265 Wash hands thoroughly after handling. Do not touch eyes.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P284 [In case of inadequate ventilation] Wear respiratory protection.

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

Section 3. Composition and information on ingredients

This product contains the following components and mixture of the following substances with non-hazardous additions.

Proteinase K:

Contains < 5 % Proteinase K (CAS #: 39450-01-6), 40-50 % Glycerol (CAS#: 56-81-5)

Magnetic Beads A:

The buffer contains no substances which at their given concentration, are considered to be hazardous.

Lysis Buffer A:

Contains 20-50% Guanidine Thiocyanate (CAS #: 593-84-0)

Binding Buffer 5:

The buffer contains no substances which at their given concentration, are considered to be hazardous.

Wash Buffer Z1:

Contains 20-50% Guanidine Thiocyanate (CAS #: 593-84-0)

Wash Buffer A:

The buffer contains no substances which at their given concentration, are considered to be hazardous.

Wash Buffer B:

The buffer contains no substances which at their given concentration, are considered to be hazardous.

Elution Buffer:

The buffer contains no substances which at their given concentration, are considered to be hazardous.

Section 4. First aid measures

Skin irritation: Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention. Wash contaminated clothing before reuse.

Eye irritation: Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.

Inhalation: Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

Ingestion: Get immediate medical attention. Do not induce vomiting unless directed by medical personnel. Call a poison center or doctor/physician if you feel unwell.

Section 5. Fire Fighting measures

Extinguishing media: carbon dioxide (CO₂), extinguishing powder or water spray or alcohol-resistant foam.

Protective equipment and precautions for firefighters: Standard procedure for chemical fires.

Section 6. Accidental release measures

Actions to be taken on spillage:

Wash off small quantities with plenty of water. Small spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large spills: Dike far ahead of liquid spill for later disposal.

Absorbent material:

Contain and collect spillage with non-combustible absorbent material (e.g., sand, earth, diatomaceous earth, vermiculite), and place in container for disposal according to local / national regulations

Actions to be taken to limit damage:

Prevent release to the environment if possible. Prevent discharge of the product into the sewage system, cesspits and cellars. Vapors produce potentially explosive atmosphere If substance has entered a water course or sewer or contaminated soil, advise police or fire brigade.

Section 7. Handling and storage

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Advice on safe handling: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area

Materials to avoid: Do not store near magnetic field.

Further information on storage stability: Keep receptacles tightly sealed and store according to the instructions in the assay protocol. Storage: at 15~ 25°C | 59~ 77°F.

Section 8. Exposure controls/personal protection

Follow standard laboratory safety procedures, including:

Respiratory protection: Filter A only in the case of a given exposure.

Eye protection: Wear safety glasses

Hand protection: Protective gloves. Glove material: Compatible chemical-resistant gloves.

Skin and body protection: Protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures: Keep away from food and drink. When using do not eat, drink or smoke. Wash and dry hands before break and at the end of workday.

Section 9. Physical and chemical properties

Appearance: liquid

Refer to 3. Composition/Information on Ingredients.

Section 10. Stability and reactivity

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: No decomposition if stored and applied as directed.

Possibility of hazardous reactions: Stable under recommended storage conditions. Hazardous decomposition products formed under thermal conditions.

Conditions to avoid: No data available

Incompatible materials: No data available

Hazardous decomposition products: Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen chloride gas.

Dangerous Reactions: none.

Section 11. Toxicological information

The toxicological effects of this product have not been thoroughly studied. We recommend handling all chemicals with caution.

Product:

Acute oral toxicity: No data available

Acute inhalation toxicity: No data available

Acute dermal toxicity: No data available

Components:

Glycerol-Oral LD50 Rat: 12600 mg/kg; Dermal LD50 Rabbit: 10,000 mg/kg. Corrosion/irritation rabbit: mild skin irritation- 24 h; mild eye irritation Rabbit-24 h.

Other information on acute toxicity: no data available.

Section 12. Ecological information

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

Section 13. Disposal considerations

Waste disposal route: Dispose in accordance with local, state or national regulations.

Disposal of empty packaging: Empty containers should be washed and taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

International Regulations

UN Number: Not relevant

UN proper shipping name: Not relevant

Transport hazard class(es): Not Applicable

Packing group: Not Applicable

Environmental hazards: Not relevant

Special precautions for user: Not special precautions

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

Not Applicable

This product is safe under IATA DGR 62th Edition 2021.

ADR-RID: Not classified

DOT (US): Not classified

IATA-DGR: Not classified

IMDG-Code: Not classified

Additional Transport Information: transport in accordance with local, state and national regulations

Section 15. Regulatory information

The material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 (REACH)

REACH – Annex XIV	Not applicable
REACH-Candidate list of Substances of very high concern for authorization to Regulation (EC) No. 1907/2006	Not applicable
REACH-Annex XVII	Not applicable

Section 16. Other information

The information contained in this SDS was obtained from sources we believe are reliable. However, the above information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release, and is provided without warranty, expressed or implied, regarding its correctness. The recipient of our product is responsible for ensuring that, where applicable, existing laws and guidelines are observed.