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Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

GHS product identifier:Bluegene Biotech-Enzyme Linked Immunosorbent Assay kit **Recommended use**: components of these kits including reagents, calibrators are all well packaged for final use, test kits are prepackaged complete ready for use Reagents ready to use in research purpose, not for use in diagnostic or therapeutic procedures.

Supplier Address BlueGene Biotech

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2. HAZARDS IDENTIFICATION

GHS - Classification

Ozone: Not applicable

GHS Label elements, including precautionary statements

Other information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:	CAS#	EINECS#	ICSC#	Amount	Hazard Classification;
ANTIBODY COATED	CA5#	EINECS#	ICSC#	Amount	Hazard Phrases
MICROTITER PLATE					Hazard Filiases
	NI-4 I :-4- 1	NI-4 I :-4- 1	NI-4	<100	NI-4 -1:C1
Affinity Purified Rabbit	Not Listed	Not Listed	Not	<100ug	Not classified
Antibody			Established		None
HAZARDOUS INGREDIENTS:	CAS#	EINECS#	ICSC#	Amount	Hazard Classification;
STANDARDS: 6vails, 0.5ml/vial					Hazard Phrases
Recombinant protein from	Not Listed	Not Listed	Not	<0.1%	Not classified
E.coli			Established		None
Distilled Water	7732-18-5	231-791-2	Not Listed	>90%	Not classified
					None
ProCline 300 Preservative	55965-84-	Not Listed	613-167-00	<0.1%	Irritant Hazard
	9		05		Phrases: H302,
					Н314, Н317,
					Н332; Н410
					Precaution
					Phrases: P273,
					P280, P305 + P351
					+ P338, P310,
					P501
HAZARDOUS	CAS#	EINECS#	ICSC#	Amount	Hazard Classification;
INGREDIENTS:ENZYME	C115#	Envees	Tesen	7 Hillouin	Hazard Phrases
CONJUGATE 10 ml					Truzura Trinuses
HRP conjugate antibody	Not Listed	Not Listed	Not	<100ug	Not classified
That conjugate untroody	1 tot Eisted	110t Elsted	Established	Toolig	None
ProClin 300 Preservative	55965-84-	Not Listed	613-167-00	<0.1%	Irritant Hazard
110Cmi 500 i iescivative	9	1 NOT LISTED	05	VO.170	Phrases: H302,
			03		H314, H317,
					H332; H410
					Precaution
					Phrases: P273, P280, P305 + P351
					· ·
					+ P338, P310,
T: II 1 11 :1	1105 53 1	214 (04 5	NI (I' (1	<1.00/	P501
Tris Hydrochloride	1185-53-1	214-684-5	Not Listed	<1.0%	Not classified
HAZADDOUG	G. C. C.	ED FEGS.	TOUGH!		None
HAZARDOUS	CAS#	EINECS#	ICSC#	Amount	Hazard Classification;
INGREDIENTS:					Hazard Phrases
WASHER BUFFER 10ml					
Distilled Water	7732-18-5	231-791-2	Not Listed	>85%	Not classified
					None
Tris Hydrochloride	1185-53-1	214-684-5	Not Listed	<8.0%	Not classified
	1105 55 1				
	1103 33 1				None
Sodium Chloride	7647-14-5	231-598-3	Not Listed	<9.0%	None Not classified

Triton X-100	9002-93-1	Not Listed	Not Listed	<1.0%	rritant, Harmful Hazard Phrases:
HAZARDOUS INGREDIENTS: TMB SUBSTRATE SOLUTION	CAS#	EINECS#	ICSC#	Amount	H318, H302 Hazard Classification; Hazard Phrases
Destilled Water	7732-18-5	231-791-2	Not Listed	>95%	Not classified None
TMB	54827-17- 7	259-364-6	Not Listed	<0,01%	Concentration is too low.
HAZARDOUS INGREDIENTS: STOP SOLUTION 6ml	CAS#	EINECS#	ICSC#	Amount	Hazard Classification; Hazard Phrases
Distilled water	7732-18-5	231-791-2	Not Listed	>95%	Not classified None
Sulphuric acid	7664-93-9	Not Listed	Not Listed	1M	Hazard Classification: Highly corrosive Hazard Phrases: H314, Precaution Phases: P280-P305, P351, P338
HAZARDOUS INGREDIENTS: BALANCE SOLUTION 6ml	CAS#	EINECS#	ICSC#	Amount	Hazard Classification; Hazard Phrases
Distilled water	7732-18-5	231-791-2	Not Listed	>95%	Not classified None
NP-40 Lysis Buffer	9016-45-9	Not Listed	Not Listed	1%	HS-No: 34021300900 Hazard Symbols: H302-H318-H400 Precaution Phases: P273-P280-P305 + P351 + P338

4. FIRST AID MEASURES

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least

15 minutes.

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Skin contact

Inhalation Move to fresh air.

Ingestion Clean mouth with water. Drink plenty of water.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable properties Not flammable.

Flash point not determined

Use extinguishing measures that are appropriate to

Suitable extinguishing media local circumstances and the surrounding environment

Explosion Data

Eye contact

Sensitivity to Mechanical None. Sensitivity to StatiDischarge None.

As in any fire, wear self-contained breathing apparatus

Protective equipment and

pressure-demand, MSHA/NIOSH

precautions for firefighters (Approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEAS MEASURES

Personal precautions

Environmental precautions Try to prevent the material from entering

drains or water courses.

Methods for containment Prevent further leakage or spillage if safe

to do so.

Methods for cleaning up Pick up and transfer to properly labeled

containers.

7. HANDLING AN STORAGE

Advice on safe handling Handle in accordance with

> industrial hygiene and safety practice. Keep containers tightly closed in a dry,

cool and well-ventilated place **Technical measures/Storage conditions**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulphuric acid 7664-93-9	TWA: 0.2 mg/m ³ thoracic fraction	TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³	IDLH: 15 mg/m ³ TWA: 1 mg/m ³

NIOSH IDLH: Immediately Dangerousto Life or Health

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th **Other Exposure Guidelines**

Cir., 1992).

Showers

Engineering measures Eyewash stations

Ventilation systems

Personal protective equipment

Eye/face protection No special protective equipment required

Skin and body protection No special protective equipment required

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high inhuma contemporary appropriate to the property of the property o airborne contaminant concentrations. Respiratory protection must be provided in accordance with

current local regulations.

Hygiene measures Handle in accordance with good industrial hygiene

and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

No information available. **Appearance Odor Threshold** No information available

pН

Melting point/range

No information available

No information available

Autoignition

Flash point No information available temperature No information available

Odor

Boiling point/boiling

Physical State @20°C

Decomposition temperatureNo information available range No information available

Flammability Limits in

Air No information available

No information available.

No information available

Explosion limits No information available

Specific Gravity no data available solubility No information available.

Evaporation rate No information available Vapor density no data available

VOC Content(%) not applicable

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible products None known based on information supplied.

Conditions to avoid None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

Hazardous polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

Chronic toxicity

This product contains one or more substances which are Carcinogenicity classified by IARC as carcinogenic to humans (Group I)

Chemical Name	ACGIH	IARC	NTP	OSHA
Sulphuric acid	A2	Group 1	Known	X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP: (National Toxicity Program)

Known - Known Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Target Organ Effects Eyes. Respiratory system. Skin. Teeth.

12. ECOLOGICAL INFORMATION

The environmental impact of this product has not been fully investigated

13. DISPOSAL CONSIDERATION

Waste Disposal:

This material, as supplied, is not a hazardous waste according to Federal regulations (40CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

This product contains **sulphuric acid** that are listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION

IATA Not dangerous goods

CNAS Not dangerous goods

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No		Percent %	SARA 313 - Threshold Values %
Sulphuric acid	7664-93-9		1M	1.0
SARA 311/312 Hazard Categorie				
Acute Health Haza	rd	no		
Chronic Health Hazard		no		
Fire Hazard		no		

Sudden Release of Pressure Hazard	no
Reactive Hazard	no

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

International Regulations

Chemical Name	Carcinogen Status	Exposure limits
sulphuric acid	A2	

Note:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

The End

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