

G-Biosciences, St Louis, MO, USA | 1-800-628-7730 | 1-314-991-6034 | technical@GBiosciences.com

A Geno Technology, Inc. (USA) brand name

# **Safety Data Sheet**

Cat. # IT3437

Size: 1 96-well plate





Disodium Hydrogen Phosphate

ProClin 300

3,3',5,5'-Tetramethylbenzidine, dihydrochloride hydrate

# ELISA Kits

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 1: Identification of the substar	nce/mixture and of the compan	iy/undertakii	ng
1.1. Product identifier Product form	: Article		
Product name	: ELISA Kits		
Product code	: ITXXXX		
Product group	: Trade product		
Other means of identification	: Antibody Coated Microtiter Plate, ELIS Recombinant Protein Standard (conta Diluent, Secondary Antibody Solution (contains Proclin 300), ELISA Detection Detection Substrate (TMB) (contains T Stop Solution (contains Sulfuric acid).	ins Proclin 300), (contains Procli on Reagent Dilue	Recombinant Protein Standard in 300), Secondary Antibody Diluent ent (contains Proclin 300), ELISA
1.2. Relevant identified uses of the substanc	e or mixture and uses advised ag	ainst	
<b>1.2.1. Relevant identified uses</b> No additional information available			
1.2.2. Uses advised against No additional information available			
1.3. Details of the supplier of the safety data	sheet		
Geno Technology, Inc./ G-Biosciences 9800 Page Avenue 63132-1429 Saint Louis - United States T 800-628-7730 - F 314-991-1504 technical@GBiosciences.com - www.GBiosciences.com			
1.4. Emergency telephone number Emergency number : C	hemtrec 1-800-424-9300 (USA/Canada)	, +1-703-527-38	87 (Intl)
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixtur	(e		
Classification according to Regulation (EC) No. 12 Not classified Adverse physicochemical, human health and envi To our knowledge, this product does not present any	ronmental effects	ccordance with g	good occupational hygiene and safety
practice.			
2.2. Label elements			
Labelling according to Regulation (EC) No. 1272/2 No labelling applicable	008 [CLP]		
2.3. Other hazards			
No additional information available			
SECTION 3: Composition/information or	1 ingredients		
3.1. Substances Not applicable			
3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Deionized water	(CAS-No.) 7732-18-5	>= 80	Not classified
Bovine Serum Albumin	(CAS-No.) 9048-46-8	0.5 - 2	Not classified
sodium chloride	(CAS-No.) 7647-14-5 (EC-No.) 231-598-3	0.5 - 2	Not classified
sulfuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	0.05 - 0.5	Skin Corr. 1A, H314

0.05 - 0.5

0.05 - 0.5

< 0.05

Not classified

Not classified

Not classified

(CAS-No.) 7558-79-4

(CAS-No.) 207738-08-7

(CAS-No.) 96118-96-6

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

potassium chloride	(CAS-No.) 7447-40-7 (EC-No.) 231-211-8	< 0.05	Not classified
Potassium Phosphate (Monobasic)	(CAS-No.) 7778-77-0 (EC-No.) 231-913-4	< 0.05	Not classified
Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
sulfuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	( 5 = <c 15)="" <="" s<="" td=""><td>ye Irrit. 2, H319 Skin Irrit. 2, H315 Corr. 1A, H314</td></c>	ye Irrit. 2, H319 Skin Irrit. 2, H315 Corr. 1A, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	. Demous neares to fresh sin and loss confertable for breathing
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effect No additional information available	s, both acute and delayed
<b>4.3. Indication of any immediate medical</b> Treat symptomatically.	attention and special treatment needed
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the sub	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	. Do not other at to take action without exitable protective equipment. Call contained
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release meas	
SECTION 6: Accidental release meas 6.1. Personal precautions, protective equ	
6.1. Personal precautions, protective equ	
6.1. Personal precautions, protective equ 6.1.1. For non-emergency personnel	ipment and emergency procedures
6.1. Personal precautions, protective equ	
6.1. Personal precautions, protective equ 6.1.1. For non-emergency personnel	ipment and emergency procedures
6.1. Personal precautions, protective equ 6.1.1. For non-emergency personnel Emergency procedures	ipment and emergency procedures : Ventilate spillage area. : Do not attempt to take action without suitable protective equipment. For further information
<ul> <li>6.1. Personal precautions, protective equ</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> </ul>	ipment and emergency procedures : Ventilate spillage area.
<ul> <li>6.1. Personal precautions, protective equ</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> <li>6.2. Environmental precautions</li> </ul>	ipment and emergency procedures : Ventilate spillage area. : Do not attempt to take action without suitable protective equipment. For further information
<ul> <li>6.1. Personal precautions, protective equ</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> <li>6.2. Environmental precautions Avoid release to the environment.</li> </ul>	ipment and emergency procedures  : Ventilate spillage area.  Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
<ul> <li>6.1. Personal precautions, protective equ</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> <li>6.2. Environmental precautions Avoid release to the environment.</li> <li>6.3. Methods and material for containment</li> </ul>	ipment and emergency procedures  : Ventilate spillage area.  Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  nt and cleaning up
<ul> <li>6.1. Personal precautions, protective equilibrium</li> <li>6.1.1. For non-emergency personnel</li> <li>Emergency procedures</li> <li>6.1.2. For emergency responders</li> <li>Protective equipment</li> <li>6.2. Environmental precautions</li> <li>Avoid release to the environment.</li> <li>6.3. Methods and material for containment</li> <li>Methods for cleaning up</li> </ul>	ipment and emergency procedures  : Ventilate spillage area.  Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  nt and cleaning up  : Take up liquid spill into absorbent material.
<ul> <li>6.1. Personal precautions, protective equ</li> <li>6.1.1. For non-emergency personnel</li> <li>Emergency procedures</li> <li>6.1.2. For emergency responders</li> <li>Protective equipment</li> <li>6.2. Environmental precautions</li> <li>Avoid release to the environment.</li> <li>6.3. Methods and material for containment</li> <li>Methods for cleaning up</li> <li>Other information</li> </ul>	ipment and emergency procedures  : Ventilate spillage area.  Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  nt and cleaning up
<ul> <li>6.1. Personal precautions, protective equ</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> <li>6.2. Environmental precautions Avoid release to the environment.</li> <li>6.3. Methods and material for containment Methods for cleaning up Other information</li> <li>6.4. Reference to other sections</li> </ul>	ipment and emergency procedures  : Ventilate spillage area.  Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  nt and cleaning up  : Take up liquid spill into absorbent material.
<ul> <li>6.1. Personal precautions, protective equ</li> <li>6.1.1. For non-emergency personnel</li> <li>Emergency procedures</li> <li>6.1.2. For emergency responders</li> <li>Protective equipment</li> <li>6.2. Environmental precautions</li> <li>Avoid release to the environment.</li> <li>6.3. Methods and material for containment</li> <li>Methods for cleaning up</li> <li>Other information</li> </ul>	ipment and emergency procedures  : Ventilate spillage area.  Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  nt and cleaning up  : Take up liquid spill into absorbent material.
<ul> <li>6.1. Personal precautions, protective equ</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> <li>6.2. Environmental precautions Avoid release to the environment.</li> <li>6.3. Methods and material for containment Methods for cleaning up Other information</li> <li>6.4. Reference to other sections For further information refer to section 13.</li> <li>SECTION 7: Handling and storage</li> </ul>	ipment and emergency procedures  : Ventilate spillage area.  Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  nt and cleaning up  : Take up liquid spill into absorbent material.
<ul> <li>6.1. Personal precautions, protective equ</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> <li>6.2. Environmental precautions Avoid release to the environment.</li> <li>6.3. Methods and material for containment Methods for cleaning up Other information</li> <li>6.4. Reference to other sections For further information refer to section 13.</li> <li>SECTION 7: Handling and storage 7.1. Precautions for safe handling</li> </ul>	<ul> <li>ipment and emergency procedures</li> <li>: Ventilate spillage area.</li> <li>: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".</li> <li>nt and cleaning up</li> <li>: Take up liquid spill into absorbent material.</li> <li>: Dispose of materials or solid residues at an authorized site.</li> </ul>
<ul> <li>6.1. Personal precautions, protective equ</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> <li>6.2. Environmental precautions Avoid release to the environment.</li> <li>6.3. Methods and material for containment Methods for cleaning up Other information</li> <li>6.4. Reference to other sections For further information refer to section 13.</li> <li>SECTION 7: Handling and storage</li> </ul>	ipment and emergency procedures  : Ventilate spillage area.  Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  nt and cleaning up  : Take up liquid spill into absorbent material.

7.2. Conditions for safe storage, including an	ly incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	
No additional information available	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 8: Exposure controls/personal protection 8.1. Control parameters		
sulfuric acid (7664-93-9)		
EU	EU IOELV TWA (mg/m <sup>3</sup> ) 0.05 mg/m <sup>3</sup>	
8.2. Exposure controls		
Appropriate engineering contr	rols:	
Ensure good ventilation of the w	ork station.	
Hand protection:		
Protective gloves		
Eye protection:		
Safety glasses		
Skin and body protection:		

Wear suitable protective clothing

## **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

### Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Colour	: No data available		
Odour	: No data available		
Odour threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: Not applicable		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Not applicable		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: No data available		
Log Pow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: No data available		
9.2. Other information			
No additional information available			
SECTION 10: Stability and reactivity			
10.1. Reactivity The product is non-reactive under normal conditions of use, storage and transport.			
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reactions	10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal conc	litions of use.		
10.4. Conditions to avoid			
None under recommended storage and handling conditions (see section 7).			

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

## 10.5. Incompatible materials

## No additional information available

**10.6. Hazardous decomposition products** Hazardous decomposition products.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
sodium chloride (7647-14-5)	
LD50 oral rat	> 3980 mg/kg bodyweight (Rat, Experimental value)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Experimental value)
LC50 inhalation rat (mg/l)	> 42 mg/l air (1 h, Rat, Male, Experimental value)

### potassium chloride (7447-40-7) LD50 oral rat 3020 mg/kg bodyweight (Rat, Female, Experimental value)

Potassium Phosphate (Monobasic) (7778-77-0)	
LD50 oral rat 7100 mg/kg (Rat)	
LD50 dermal rabbit	> 4640 mg/kg (Rabbit)

sulfuric acid (7664-93-9)	
LD50 oral rat	2140 mg/kg bodyweight (Rat, Experimental value)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information 12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
sodium chloride (7647-14-5)	
LC50 fish 1	5840 mg/l (ASTM, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value)

potassium chloride (7447-40-7)	
LC50 fish 1	2010 mg/l (96 h, Lepomis macrochirus, Static system)
LC50 fish 2	880 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value)
EC50 Daphnia 1	660 mg/l (EPA 600/4-90/027, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h algae (1)	2500 mg/l (Scenedesmus subspicatus)
ErC50 (algae)	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value)

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Potassium Phosphate (Monobasic) (7778-77-0)		
LC50 fish 1	> 900 mg/l (48 h, Leuciscus idus)	
sulfuric acid (7664-93-9)		
LC50 fish 1	42 mg/l (96 h, Gambusia affinis)	
EC50 Daphnia 1	29 mg/l (24 h, Daphnia magna)	
12.2. Persistence and degradability		
Bovine Serum Albumin (9048-46-8)		
Persistence and degradability	Readily biodegradable in water.	

sodium chloride (7647-14-5)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

potassium chloride (7447-40-7)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable (inorganic)
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

Potassium Phosphate (Monobasic) (7778-77-0)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

sulfuric acid (7664-93-9)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
sodium chloride (7647-14-5)	
Log Pow	-3 (Calculated)
Bioaccumulative potential	Not bioaccumulative.

potassium chloride (7447-40-7)	
Log Pow	-0.46 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.

Potassium Phosphate (Monobasic) (7778-77-0)	
Bioaccumulative potential	No bioaccumulation data available.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

sulfuric acid (7664-93-9)	
Log Pow	-2.2 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
sodium chloride (7647-14-5)	
Surface tension	73.03 mN/m (23 °C, 14.5 g/l)
Ecology - soil	No (test)data on mobility of the substance available.

potassium chloride (7447-40-7)	
Ecology - soil	No (test)data on mobility of the substance available.
12.5. Results of PBT and vPvB assessment	
Component	
sodium chloride (7647-14-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
12.6. Other adverse effects	

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Waste treatment methods.

SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADN	
14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## 15.1.1. EU-Regulations

Contains no substance on the REACH candidate list Directive 2012/18/EU (SEVESO III)

## 15.1.2. National regulations

No additional information available

**15.2. Chemical safety assessment** No chemical safety assessment has been carried out

SECTION 16: Other information	
Full text of H- and EUH-statements:	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H314	Causes severe skin burns and eye damage.

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product