

## Material Safety Data Sheet

### Intact PTH ELISA

IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

#### SECTION 1. IDENTIFICATION OF SUBSTANCES /PREPARATION

**Product Name:** Intact PTH ELISA  
**Catalog No:** 1735-6  
**Synonyms:** N/A  
**Intended Use:** Laboratory Use

#### SECTION 2. HAZARD IDENTIFICATION

##### 2.1 Classification of the substance or mixture Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Dusts/Mists) Category 4  
Chronic aquatic toxicity Category 3

**Classification according to 67/548/EEC**  
*Full text of R-phrases: see section 16*

##### 2.2 Label elements



**Signal Word**  
Warning

**Hazard Statements**  
H332 - Harmful if inhaled  
H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P271 - Use only outdoors or in a well-ventilated area  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P312 - Call a POISON CENTER or doctor if you feel unwell  
P273 - Avoid release to the environment  
P501 - Dispose of contents/ container to an approved waste disposal plant

**2.3 Other hazards**

**General Hazards**

Standards are formulated with a buffer base, animal or human serum. The kit components that are made with human serum are tested by a United States Food and Drug Administration (USFDA) licensed method and found to be non-reactive for HIV-1, HIV-2, Hepatitis B surface antigen, and HCV. Because no test method can offer absolute assurance that these agents are absent, reagents should be handled at the Biosafety Level 2, as recommended for any potentially infectious human blood product, in the United States Center for Disease Control (USCDC) and National Institute of Health (USNIH) manual "Biosafety in Microbiological Laboratories", 1988. All bovine serum products used are derived from animals of US origin, processed in USDA licensed facilities ELISA Wash Concentrate contains Ciprofloxacin HCl. Keep from personnel who have demonstrated a sensitivity to Quinoline based drug products. Females who are, or may be pregnant, should avoid contact with Ciprofloxacin.

**SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

Chemical Name	EC No	CAS No	Weight %	Classification According to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Sulfuric acid	Present	7664-93-9	3	C;R35	Skin Corr. 1A(H314)	No data available
Tetramethylbenzidine	Present	64285-73-0	<0.1	-	No data available	No data available
Ciprofloxacin HCl	-	86392-32-0	<0.1	-	No data available	No data available

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

**SECTION 4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

- ✓ **Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Call a physician if you feel unwell.
- ✓ **Skin Contact** Wash with soap and water. Take off contaminated clothing.
- ✓ **Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
- ✓ **Ingestion** Flush mouth with copious amounts of water, provided that the person is conscious, and seek medical attention.

**Self-Protection of the First Aider** No specific precautions necessary.

**4.2 Most important symptoms and effects, both acute and delayed**

May cause irritation to the mucous membranes and upper respiratory tract. May include redness, drying and cracking of skin.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Note to Physicians** Treat symptomatically.

**SECTION 5. FIRE FIGHTING MEASURES**

**5.1 Extinguishing media**

Suitable extinguishing media: Chemical or water fire extinguisher.

Unsuitable extinguishing media: None known

**5.2 Special hazards arising from the substance or mixture**

None known

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal Precautions

Wear protective clothing as described in Section 8 of this safety data sheet. Take care not to contaminate body.

For Emergency Responders

Use personal protection recommended in Section 8.

**6.2 Environmental precautions**

Contain the spill to the smallest area possible. Avoid release to the environment.

**6.3 Methods and material for containment and cleaning up**

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Neutralize a Stop Solution spill with dilute base, then absorb the material with disposable towels. Soak a standard or control spill area with a 10% bleach solution and wipe up with disposable towels. Dispose of all contaminated trash in accordance with local regulations.

**6.4 Reference to other sections**

See Section 12: ECOLOGICAL INFORMATION

**SECTION 7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Advice on Safe Handling

Avoid breathing vapors or mists. Use only in well-ventilated areas. Use personal protection recommended in Section 8. Take care not to splash, spill, or splatter standards, stop solution, or controls.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

**7.2 Conditions for safe storage, including any incompatibilities**

Storage Conditions

Store kit reagents in 2 °C - 8 °C in refrigerators designated and labeled to contain human blood products.

**7.3 Specific end use**

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

**SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**8.1 Control parameters**

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Sulfuric acid 7664-93-9		TWA:0.05 mg/m <sup>3</sup>	TWA:0.05 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA:0.05 mg/m <sup>3</sup>	TWA:0.1 mg/m <sup>3</sup> Ceiling/Peak: 0.1 mg/m <sup>3</sup> Skin
Component	Italy	Portugal	Netherlands	Finland	Denmark
Sulfuric acid 7664-93-9 (3)		TWA: 0.2 mg/m <sup>3</sup>	TWA:0.05 mg.m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> STEL: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Sulfuric acid 7664-93-9	STEL 0.2 mg/m <sup>3</sup> TWA: 0.1 mg.m <sup>3</sup>	STEL: 0.1 mg/m <sup>3</sup> TWA: 0.1 mg.m <sup>3</sup>	STEL: 3 mg/m <sup>3</sup> TWAN: 1 mg/m <sup>3</sup>	TWA:0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

**8.2 Exposure controls**

Engineering Controls: Apply technical measures to comply with the occupational exposure limits.

**Personal Protective Equipment**

Eye/Face Protection: Wear approved safety goggles where a splash hazard exists.

Hand Protection: Wear non-permeable rubber, neoprene, latex, or nitrile disposable gloves. Change gloves when they become contaminated.

Skin and Body Protection: Wear laboratory coat.

Respiratory Protection: In case of fire, wear self-contained breathing apparatus

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Physical State Liquid



Appearance Liquid except for Standard B to Standard F and Control 1/Control 2 which are lyophilized and Streptavidin coated microwell  
Color Blue for Reagent 1 (ACTH Biotinylated Ab Solution), Red for Reagent 2 (Enzyme labeled Ab Solution) and clear for all other liquid reagents  
Odor none

Property	Values	Remarks .Method
pH	5.56-7.4	Stop Solution pH< 2
Melting point/freezing point Values	Not applicable	
Boiling point/boiling range	Not applicable	
Flash point	Not applicable	
Evaporation rate	Not determined	
Flammability (solid, gas)	Not flammable	
Flammability limits in air		Not applicable
Upper flammability limits		Not applicable
Lower flammability limit		
Vapor pressure	Not applicable	
Vapor density	Not determined	
Specific gravity		
Water solubility	Completely soluble	(1=Water)
Solubility(ies)	Not determined	
Partition coefficient	Not determined	
Autoignition temperature	Will not occur	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic viscosity		

## 9.2 Other information

### **SECTION 10. STABILITY AND REACTIVITY**

#### 10.1 Reactivity

Not reactive under normal conditions.

#### 10.2 Chemical stability

Stable under normal conditions.

#### Explosion Data

Sensitivity to Mechanical Impact none.

Sensitivity to Static Discharge none.

#### 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

No conditions known.

#### 10.5 Incompatible materials

No materials known.

#### 10.6 Hazardous decomposition products

No dangerous decomposition products known.



**SECTION 11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute Toxicity**

Product Information

Potential biohazard.

**Inhalation** Harmful if inhaled.

The following values are calculated based on chapter 3.1 of the GHS document

**Inhalation**

Mist 1.67

Units mg/L

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric acid	= 2140 mg/kg (Rat )		=510 mg/m <sup>3</sup> (Rat) 2h = 347 ppm (Rat) 1 h

Symptoms Please see section 4 of this SDS for symptoms.

**SECTION 12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Harmful to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sulfuric acid		500:96 h Brachydanio rerio mg/L LC50 static	29:24 h Daphnia magna mg/L EC50

**12.2 Persistence and degradability**

Not determined.

**12.3 Bioaccumulative potential**

Not determined.

**12.4 Mobility in soil**

Not determined.

**12.5 Results of PBT and vPvB assessment**

Not determined.

**12.6 Other adverse effects**

Not determined.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Waste from Residues / Unused Products

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Improper disposal or reuse of this container may be dangerous and illegal.

**SECTION 14. TRANSPORT INFORMATION**

This product is not subject to official transport regulations.

- 14.1 UN number Not regulated
- 14.2 UN proper shipping name Not regulated
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not regulated
- 14.6 Special precautions for user Not regulated.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

**SECTION 15. REGULATIONS**

**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**  
**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**International Inventories**

- TSCA -
- EINECS/ELINCS -
- DSL/NDSL -
- PICCS -
- ENCS -
- IECSC -
- AICS -
- KECL -

**Legend**

- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- AICS** - Australian Inventory of Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier

**SECTION 16. OTHERS**

**Full text of R-phrases / H-phrases referred to under sections 2 and 3**

- R35 - Causes severe burns
- H314 - Causes severe skin burns and eye damage.



**Classification procedure**

Calculation method

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

**Quality Control**

Diagnostic Automation/Cortez Diagnostics, Inc.

DAI # 1735-6

Revision Date: 2016-02-03