



## 1. PRODUCT IDENTIFICATION

<u>TRADE NAME (AS LABELED):</u>	C-Peptide Ultrasensitive ELISA Kit
<u>PRODUCT NUMBER:</u>	CPU31-K01
<u>PRODUCT DESCRIPTION:</u>	This ultra-sensitive C-peptide ELISA kit is intended for use in the quantitative determination of low pico gram level of human connecting peptide in serum or plasma. This ELISA kit is designed, developed and produced for the quantitative measurement of human C-peptide in serum and/or EDTA-plasma samples. The assay utilizes the "sandwich" technique with selected antibodies that bind to various epitopes of C-peptide.
<u>PRODUCT USE INFORMATION:</u>	Not Applicable
<u>U.N NUMBER:</u>	Non-Regulated
<u>U.N. DANGEROUS GOOD CLASS:</u>	
<u>MANUFACTURER'S NAME:</u>	<b>Eagle Biosciences, Inc.</b>
<u>ADDRESS:</u>	20A NW Blvd, Suite 112, Nashua, NH 03063 USA
<u>TELEPHONE:</u>	617-419-2019
<u>DATE OF PREPARATION:</u>	November 30, 2017
<u>LATE DATE OF REVISION:</u>	November 30, 2017

## 2. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW: Product Description:** This C-Peptide Ultrasensitive ELISA Kit contains components making up this ELISA test kit. The kit contains a Substrate, Wash Buffer, Stop Solution, Enzyme Conjugate Reagent, standards and controls. This product is used in laboratories for human sample testing. **Health Hazards:** Possible skin and eye irritant. **Flammability Hazards:** Non-Flammable solution. **Reactivity Hazards:** None known. **Environmental Hazards:** Not expected to have significant environmental effects. **Emergency Considerations:** Emergency responders must wear the proper personal protective equipments (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding.

### EU LABELING AND CLASSIFICATION:

EU DANGEROUS PREPARATIONS DIRECTIVE (DPD) LABELING AND CLASSIFICATION: This product does not meet the definition of any hazardous class, as defined by the European Union Council Directives 67/548/EEC, 1999/445/EC, 1272/2008 and subsequent Directives.

None of the components of this product are listed in the Annex I of Regulation (EC) No 689/2008.

### GHS CLASSIFICATIONS 1272/2008:

### HAZARD STATEMENTS:

H320: Causes eye irritation

H315: Causes skin irritation

### PRECAUTIONARY STATEMENT:

P264: Wash skin thoroughly after handling

P281: Use protective equipment as required

### EU CLASSIFICATION 1999/455/EC:

Classification: [Xi] Irritant, [Xn] Harmful

Risk Phrases: R34: Causes burns, R36/38: Irritating to eyes and skin, R41: Risk of serious damage to eyes.

Safety Phrases: S26: In case of contact with eyes, rinse thoroughly with plenty of water and seek medical advice: S36/37/39: Wear suitable protective

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**HEALTH HAZARDS OR RISK FROM EXPOSURE:**

Prolonged contact with the components in this kit may irritate the skin. Contact with eyes may cause irritation or redness. This product is designed to be used in a laboratory environment.

Acute Individuals using this product should be wearing the proper personal protective equipment to prevent skin and eye contact.

Chronic None known

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS: ELISA HRP SUBSTRATE (TMB/H2O2)	CAS #	EINECS #	ICSC #	AMOUNT	HAZARD CLASSIFICATION: RISK PHRASES
Water	7732-18-5	231-791-2	Not Listed	35-45%	HAZARDOUS CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE
TMB (3,3',5,5'-Tetramethylbenidine)	54827-17-7	259-364-6	Not Listed	55-65%	HAZARDOUS CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE
HAZARDOUS INGREDIENTS: ELISA STOP SOLUTION	CAS #	EINECS #	ICSC #	AMOUNT	HAZARDOUS CLASSIFICATION; RISK PHRASES
Water	7732-18-5	231-791-2	Not Listed	95 – 98%	HAZARDOUS CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE
Sulfuric Acid	7664-93-9	231-639-5	0362	2 – 5%	HAZARDOUS CLASSIFICATION: [Xn]; RISK PHRASES: R34, R41
HAZARDOUS INGREDIENTS: OTHER KIT COMPONENTS	CAS #	EINECS #	ICSC #	AMOUNT	HAZARD CLASSIFICATION; RISK PHRASES
Water	7732-18-5	231-791-2	Not Listed	90-99%	HAZARDOUS CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE
Sodium Phosphate, Dibasic	7558-79-4	231-448-7	1129	<1%	HAZARDOUS CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE
Sodium Chloride	7647-14-5	231-598-3	Not Listed	<1%	HAZARDOUS CLASSIFICATION: [Xi]; RISK PHRASES: R36/38
Potassium Phosphate, Monobasic	7778-77-0	231-913-4	1608	<1%	HAZARDOUS CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE
Potassium Phosphate, Dibasic	7758-11-4	231-834-5	Not Listed	<1%	HAZARDOUS CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE
Tween-20	9005-64-5	500-018-3	Not Listed	<1%	HAZARDOUS CLASSIFICATION: [Xi]; RISK PHRASES: R36/38
EDTA	10378-23-1	Not Listed	Not Listed	<1%	HAZARDOUS CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE
Bovine Serum Albumin	9048-46-8	232-936-2	Not Listed	<1%	HAZARDOUS CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE
Horseradish Peroxidase	9003-99-0	232-668-6	Not Listed	<1%	HAZARDOUS CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE
Thimerosal	54-64-8	200-210-4	Not Listed	<1%	HAZARDOUS CLASSIFICATION: [T+] [N]; RISK PHRASES: R34, R36/38, R41, S26, S36/37/39
Horseradish Peroxidase	9003-99-0	232-668-6	Not Listed	<1%	HAZARDOUS CLASSIFICATION: NOT CLASSIFIED RISK PHRASES: NONE

Note: ALL WHIMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000.

**4. FIRST-AID MEASURES**

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take a copy of the label and MSDS to a health professional with the contaminated individual.

**EYE CONTACT:** If chemical contacts the eye, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Remove contact lenses, if worn. Seek medical attention is irritation persists.

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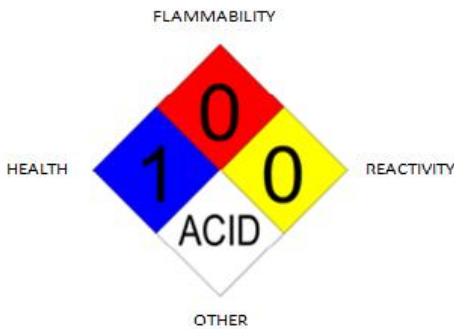
**SKIN CONTACT:** Wash contacted area with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if irritation develops or persists.

**INHALATION:** Not a normal route of entry; however, if chemical is inhaled, or breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**INGESTION:** If chemical is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Victims of chemical exposure must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take a copy of the label and MSDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None know  
**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and eliminate overexposure

**5. FIRE-FIGHTING MEASURES**



NFWA Rating Explanation Guide					
RATING NUMBER	HEALTH HAZARD	FLAMMABILITY HAZARD	INSTABILITY HAZARD	RATING SYMBOL	SPECIAL HAZARD
4	Can be lethal	Will vaporize and readily burn at normal temperatures	May explode at normal temperatures and pressures	ALK	Alkaline
3	Can cause serious or permanent injury	Can be ignited under almost all ambient temperatures	May explode at high temperature or shock	ACID	Acidic
2	Can cause temporary incapacitation or residual injury	Must be heated or high ambient temperature to burn	Violent chemical change at high temperatures or pressures	COR	Corrosive
1	Can cause significant irritation	Must be preheated before ignition can occur	Normally stable. High temperatures make unstable	OX	Oxidizing
0	No hazard	Will not burn	Stable	☢	Radioactive
				W	Reacts violently or explosively with water
				W OX	Reacts violently or explosively with water and oxidizing

This chart for reference only - For complete specifications consult the NFPA 704 Standard  
 NFPA Chart 1 www.comprosoft.com

**FLASH POINT:** Non-flammable  
**AUTOIGNITION TEMPERATURE:** Not applicable  
**FLAMMABLE LIMITS (in air volume, %):** Lower NA Upper NA  
**FIRE EXTINGUISHING MATERIALS:** Use extinguishing materials appropriate for surrounding fire  
**UNUSUAL FIRE AND EXPLOSIVE HAZARDS:** The product is a water based mixture with no known fire or explosion hazards.  
**EXPLOSION SENSITIVITY TO MECHANICAL IMPACT:** Not sensitive  
**EXPLOSION SENSITIVITY TO STATIC DISCHARGE:** Not sensitive  
**SPECIAL FIRE-FIGHTING PROCEDURES:** Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or environmentally sensitive areas.

**6. ACCIDENTAL RELEASE MEASURES**

**SPILL AND LEAK RESPONSE:** Proper protective equipment should be used. Personnel should be trained for spill response operations.

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**SPILLS:** Trained personnel following pre-planned procedures should handle non-incident releases. Absorb spilled materials using polypads or other suitable absorbent material. Place all spill residue in an appropriate container and seal. Decontaminate the area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State, and local procedures.

## 7. HANDLING AND STORAGE

**WORK PRACTICES AND HYGIENE PRACTICES:** As with all chemicals, avoid getting this product on you or in you. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing mists or sprays generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

**STORAGE AND HANDLING PRACTICES:** Store product in properly labeled, closed containers at temperatures between 2-8°C. Protect from physical damage. Keep containers closed when not in use.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the established limits.

Currently, International exposure limits are not established for all components of this product. Please check with competent authority in each country for the most recent limits in place.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standards of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable standards for relevant details.*

**RESPIRATORY PROTECTION:** If exposure limits are exceeded, use only respiratory protection authorized in the US Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent US State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION:** Splash goggles or safety glasses with side shields recommended. If necessary, refer to US OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

**HAND PROTECTION:** Compatible protective gloves recommended. Wash hands after removing gloves. If necessary, refer to US OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

**BODY PROTECTION:** Use body protection appropriate for task. Coveralls, rubber aprons, or chemical protective clothing made from natural rubber are generally acceptable, depending upon the task. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as describes in US OSHA 29 CFR 1910.139.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**VAPOR DENSITY:** NA

**SPECIFIC GRAVITY @ 20°C:** No data (water=1)

**VAPOR PRESSURE:** No data @ 20°C

**APPEARANCE AND COLOR:** This product is a clear to yellowish liquid.

**EVAPORATION RATE (n-BaAc=1):** NA

**SOLUBILITY IN WATER:** Soluble

**pH:** Not established

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under ordinary conditions of use and storage.

**DECOMPOSITION PRODUCTS:** When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** No information available.

**HAZARDOUS DEPOLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Temperatures above or below the recommended storage range.

## 11. TOXICOLOGY INFORMATION

**TOXICITY DATA:** No data available.

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**SUSPECTED CANCER AGENT:** The components of this product are not listed by agencies tracking the carcinogenic potential of chemical compounds as follows:

Carcinogenicity:

NTP Regulated	No
IARC Regulated	No
OSHA Regulated	No

**IRRITANCY OF THE PRODUCT:** None known

**SENSITIZATION TO THE PRODUCT:** This product is not known to cause human skin or respiratory sensitization.

**REPRODUCTIVE TOXICITY INFORMATION:** Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity: The components of this product are not reported to produce mutagenic effects in humans.

Embryotoxicity: The components of this product are not reported to produce embryotoxic effects in humans.

Teratogenicity: The components of this product are not reported to produce teratogenic effects in humans.

Reproductive Toxicity: The components of this product are not reported to produce reproductive effects in humans.

## 12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION

**ENVIRONMENTAL FATE:** No data available.

**ENVIRONMENTAL TOXICITY:** No data available.

## 13. DISPOSAL CONSIDERATIONS

**PREPARING WASTES FOR DISPOSAL:** Waste disposal must be in accordance with appropriate US Federal, State, and local regulations, those of Canada, Australia, EU Member States, and Japan.

## 14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

DOT CLASSIFICATION	Non Regulated Material
DOT LABELING REQUIREMENTS	None
IATA LABELING REQUIREMENTS	None

**US DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:** This product is not classified as dangerous goods, per US DOT regulations, under 49 CFR 172.101.

**TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOOD REGULATIONS:** This product is not classified as Dangerous Goods, per regulations of Transport Canada.

**INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):** This product is not classified as Dangerous Goods, by rules of IATA.

**INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:** This product is not classified as Dangerous Goods by the International Maritime Organization.

**EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):** This product is not classified by the United Nations Economic Commission for Europe to be dangerous goods.

## 15. REGULATORY INFORMATION

**UNITED STATES REGULATIONS:**

**SARA REPORTING REQUIREMENTS** None

**MARINE POLLUTANT** This product contains no components listed as a Marine Pollutant under 49 CFR 172.101, Appendix B.

**TSCA** All components in this product mixture are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals or are exempt from listing.

**SARA 311/312:** Acute Health: Yes; Chronic Health: No; Fire: No; Reactivity: No

**US CERCLA REPORTABLE QUANTITY (RQ):** Hydrochloric Acid CAS#6381-92-6 500 Lb RQ.

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**US TSCA INVENTORY STATUS:** All of the components of this product are listed in the TSCA Inventory or exempt.  
**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** This product does not contain any component above the 0.1% level which is listed as a California Proposition 65 chemical. Note the chemical identity of some or all components present is confidential business information (trade secret) and is being withheld as permitted by 29 CFR 1910.1200 (i).

**CANADIAN REGULATION:**

**CANADIAN DSL/INDSL INVENTORY STATUS:** All of the components of this product are on the DSL Inventory or exempt.

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** No component of this product is on the CEPA First Priorities Substance Lists.

**CANADIAN WHIMS CLASSIFICATION AND SYMBOLS:** Not regulated.

**EU DANGEROUS PREPARATIONS DIRECTIVE (DPD) LABELING AND CLASSIFICATION:** This product does not meet the definition of any hazardous class, as defined by the European Union Council Directives 67/548/EEC and 1999/445/EC and subsequent Directives.

EU CLASSIFICATION 1999/445/EC:

Classification: [Xi] Irritant, [Xn] Harmful

Risk Phrases: R34: Causes burns, R36/38 Irritating to eyes and skin, R41: Risk of serious damage to eyes.

Safety Phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice;

S36/37/39: Wear suitable protective clothing, gloves, eye/face protection.

Annex II Hazard Symbol:



**AUSTRALIAN INFORMATION FOR PRODUCT:**

**AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS:** All components of this product are listed on the AICS or exempt.

**STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS:** Not applicable.

**JAPANESE INFORMATION FOR PRODUCT:**

**JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:** The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

**INTERNATIONAL CHEMICAL INVENTORIES:**

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pacific: Listed or exempt.

Australian Inventory of Chemical Substances (AICS): Listed or exempt.

Korean Existing Chemicals List (ECL): Listed or exempt.

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed or exempt.

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed or exempt.

Swiss Giftlist List of Toxic Substances: Listed or exempt.

US TSCA: Listed or exempt.

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## 16. OTHER INFORMATION

PREPARED BY: Stefanie Dallezotte

DATE: November 30, 2017

All chemicals may pose unknown hazards and should be used with cautions. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Eagle Biosciences, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein. Users should consider this data as only a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, as well as the safety and health of employees, customers, and protection of the environment.