

MATERIAL SAFETY DATA SHEET

Product: **Human C-Peptide ELISA Kit** Catalog #: **EZHCP-20KCE**

Composition/Information of Ingredients

| <u>Component</u> | <u>Catalog #</u> | <u>Ingredients</u> | <u>See Below</u> |
|-----------------------------|------------------|---|------------------|
| Wash Buffer 10X Concentrate | EWB-HRPCE | Miscellaneous Buffers/Salts ProClin-300 | 1 3 |
| Assay Buffer | EABIR-2CE | Miscellaneous Buffers/Salts Sodium Azide (NaN ₃) | 1 2 |
| Human C-Peptide Standards | E8020-KCE | Human C-Peptide (0.2 – 20 ng/ml) Assay Buffer (as above) | 1 4 |
| Quality Controls 1 & 2 | E6020-KCE | Human C-Peptide Assay Buffer (as above) | 1 1 |
| Enzyme Solution | EHRPCE | Streptavidin-Horseradish Peroxidase Conjugate (SA-HRP) | 5 |
| Substrate | ESS-TMBCE | TMB (3, 3', 5' Tetramethylbenzidine) | 1 |
| Stop Solution | ET-TMBCE | 0.3M HCl | 2 |
| Serum Matrix | EMTX-CPCE | Animal Serum Sodium Azide (NaN ₃) | 6 3 |
| Detection Antibody | E1020CE | Human C-Peptide Antibody Assay Buffer (as above) | 1 4 |
| Microtiter Plate | EP20CE | Coated with antibody | 1 |

Hazardous Ingredients:

1. Linco Research is not aware of any hazards for this product. Avoid contact with eyes and skin.
2. Hydrochloric Acid: This product is generally considered safe; however, all laboratory safety procedures must be followed and gloves and safety glasses must be worn when preparing this material.
3. ProClin-300, 0.05% and Sodium Azide, 0.08%, or item containing sodium azide: CAS # 26628-22-8. See fire hazard and explosion information below.
4. Refer to ingredients and hazard information for Assay Buffer (above).
5. Streptavidin-Horseradish Peroxidase Conjugate (SA-HRP): CAS# 54-64-8. Wear gloves while using this component. Follow emergency and first aid procedures.
6. Animal Serum: Potential Biohazard due to blood-borne pathogens. All precautions designated by your local Bloodborne Pathogen Exposure Control Plan should be followed.

Fire Hazard and Explosion Information:

The above listed component contains sodium azide. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. If discarded into the sink, flush with a large volume of water to prevent azide build-up.

Health Hazard Data:

Appropriate handling of toxic chemicals in laboratories is essential. Periodic review of the safeguards must be ensured. Appropriate emergency procedures and equipment should be in place and their use should be reviewed. Laboratory technicians should be aware of the potential toxicity and rapidity of action, and signs and symptoms of poisoning with this compound.

Emergency and First Aid Procedures:

Ingestion: Obtain immediate medical attention.
Eyes: Immediately flush eyes with water.
Skin: Wash skin with soap and plenty of water.

Spill Procedures:

Spills should be cleaned up by using absorbents and thrown away in the proper receptacles.

Storage and Disposal:

Storage: Upon receipt, store all components at 2 -8°C. For periods longer than two weeks, consult the Kit Protocol included with the kit.

Disposal: Observe all federal, state, and local environmental regulations.

Protective Equipment:

Ventilation: Provide local exhaust or process enclosure ventilation to meet the published exposure limits.

Clothing and Gloves: Wear appropriate protective clothing and equipment to prevent repeated or prolonged contact with this substance. Protective clothing should meet the requirements for personal protective equipment. This clothing should include a lab coat and protective gloves.

Eye protection should always be used when working with chemicals.

Disclaimer:

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