

MATERIAL SAFETY DATA SHEET

Product: **Human Intact Proinsulin ELISA Kit** Catalog #: **EZHIPI-17K**

Composition/Information of Ingredients

| <u>Component</u> | <u>Catalog #</u> | <u>Ingredients</u> | <u>See Below</u> |
|--------------------------------------|------------------|---|------------------|
| Assay Buffer | EABU | Na ₂ HPO ₄ •7H ₂ O | 1 |
| | | EDTA•2Na | 1 |
| | | NaCl | 1 |
| | | Bovine Serum Albumin (BSA) | 1 |
| | | Sodium Azide | 2 |
| Human Intact Proinsulin Standard Set | E8017-K | Human Intact Proinsulin | 1 |
| | | Assay Buffer | 3 |
| Detection Antibody | E1017 | Na ₂ HPO ₄ •7H ₂ O | 1 |
| | | EDTA•2Na | 1 |
| | | NaCl | 1 |
| | | Sodium Azide | 2 |
| | | Bovine Serum Albumin (BSA) | 1 |
| | | Monoclonal anti Human Proinsulin Antibody | 1 |
| | | Mouse Gamma Globulin (IgG) | 1 |
| 10X Wash Buffer | EWB-HRP | Tris Buffered Saline | 1 |
| | | NaCl | 1 |
| | | Tween 20 | 4 |
| | | ProClin 300 | 2 |
| Matrix Solution | EMTX-U | Human Serum | 8 |
| | | Sodium Azide | 2 |
| Enzyme Solution | EHRP | Streptavidin-Horseradish Peroxidase Conjugate | 5 |
| Substrate | ESS-TMB2 | Ultrasensitive TMB 3,3',5'-Tetramethylbenzidine | 1 |
| Stop Solution | ET-TMB | 0.3M HCl | 6 |
| Quality Controls 1 & 2 | E6000-K | Various Peptides including Human Proinsulin | 1 |
| | | Na ₂ HPO ₄ •7H ₂ O | 1 |
| | | EDTA•2Na•2H ₂ O | 1 |
| | | NaCl | 1 |
| | | Bovine Serum Albumin (BSA) | 1 |
| | | Sodium Azide | 2 |
| | | Triton X-100 | 1 |
| | | Leupeptin | 7 |
| Inert Coloring | 1 | | |
| Microtiter Plate | EP15 | Coated with antibody | 1 |

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Hazardous Ingredients:

1. Linco Research, Inc. is not aware of any hazards for this product.
2. Sodium Azide, 0.08% and ProClin 300: CAS # 26628-22-8. See fire hazard and explosion information below.
3. Refer to ingredients and hazard information for Assay Buffer (above).
4. Tween 20: CAS # 9005-64-5. The toxicological properties of this product have not been thoroughly investigated. Avoid inhalation of this product. Avoid contact with eyes and skin.
5. Streptavidin-Horseradish Peroxidase Conjugate (SA-HRP): CAS# 54-64-8. Wear gloves while using this component. Follow emergency and first aid procedures.
6. Hydrochloric acid – In case of contact with skin, flush with water.
7. Leupeptin: CAS # 24365-47-4. The toxicological properties of this product have not been determined. It may be harmful by all routes of entry. This product may be irritating to the eyes, skin, and upper respiratory tract.
8. Human 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:

Some of the above listed components contain 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 using absorbents and thrown away in the proper receptacles.

Storage and Disposal:

Storage: Store all components at 2-8°C upon receipt.

Disposal: Observe safe disposal guidelines according to 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, safety glasses and protective gloves.

Eye protection should always be worn when working with chemicals.

Disclaimer:

The information provided in this MSDS is believed, but not warranted, to be accurate. The user of the product should determine the suitability of this information for the intended use of the product. It is intended for use by persons having technical skills and at their own discretion and risk. Since conditions of use are outside Linco Research Inc.'s control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information.