

## MATERIAL SAFETY DATA SHEET

Product: **Human Insulin ELISA Kit**

Catalog #: **EZHI-14BK**

### Composition/Information of Ingredients

<u>Component</u>	<u>Catalog #</u>	<u>Ingredients</u>	<u>See Below</u>
Wash Buffer 10X Concentrate	EWB-HRP	Miscellaneous Buffers/Salts	1
		ProClin-300	2
Assay Buffer	EABIR-2	Miscellaneous Buffers/Salts	1
		Sodium Azide (NaN <sub>3</sub> )	2
Human Insulin Standard Series	E8014-K	Human Insulin (2.0 to 200 µU/ml)	1
		Miscellaneous Buffers/Salts	1
		Sodium Azide (NaN <sub>3</sub> )	2
Quality Controls 1 & 2	E6000-K	Various Peptides Including Human Insulin	1
		Miscellaneous Buffers/Salts	1
		Sodium Azide (NaN <sub>3</sub> )	2
		Inert Coloring	1
Enzyme Solution	EHRP	Streptavidin – Horseradish Peroxidase Conjugate (SA-HRP)	5
Substrate	ESS-TMB	TMB (3, 3', 5' Tetramethylbenzidine)	1
Stop Solution	ET-TMB	0.3M HCL	3
Human Insulin Antibody	E1014	Human Insulin Serum	1
		Assay Buffer (as above)	4
Matrix Solution	EMTX	Human Serum	6
		Sodium Azide (NaN <sub>3</sub> )	2
Microtiter Plate	EP14SLD	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. 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.
3. Hydrochloric acid – In case of contact with skin, flush with water.
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 first aid procedures.
6. 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:**

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, all components of the kit should be stored at 2-8°C. For longer storage, freeze diluted HRP Wash Buffer, Matrix Solution, Insulin Standards and Controls at  $\leq -20^{\circ}\text{C}$ . Avoid multiple freeze/thaw cycles of the Insulin Standards and Matrix Solution. Refer to expiration dates on all reagents prior to use. Do not mix reagents from different kits unless they have the same lot numbers.

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.

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