

MATERIAL SAFETY DATA SHEET

Product: **Human Amylin ELISA Kit**

Catalog #: **EZHA-52K**

Composition/Information of Ingredients

| <u>Component</u> | <u>Catalog #</u> | <u>Ingredients</u> | <u>See Below</u> |
|-----------------------------|------------------|----------------------------------------------------------------------------|------------------|
| Wash Buffer 10X Concentrate | EWB-TR | Miscellaneous Buffers/Salts | 1 |
| | | Sodium Azide (NaN ₃) | 2 |
| Assay Buffer | AB-A | Miscellaneous Buffers/Salts | 1 |
| | | Sodium Azide (NaN ₃) | 2 |
| Amylin Standard | E8051-K | Human Amylin (100 pM) | 1 |
| | | Assay Buffer (as above) | 4 |
| Quality Controls 1 & 2 | E6051-K | Human Amylin | 1 |
| | | Assay Buffer (as above) | 4 |
| Substrate | ESS-MUP | 4-Methylumbelliferyl Phosphate di-(2-amino-2-methyl-1, 3-propanediol) salt | 3 |
| Stop Solution | ET-AP | Miscellaneous Buffers/Salts | 1 |
| | | ProClin-300 | 2 |
| Substrate Diluent | EDD-MUP | MgCl ₂ | 3 |
| | | 90% Diethanolemine | 3 |
| Detection Antibody | E1051 | Human Amylin Antibody | 1 |
| | | Assay Buffer (as above) | 4 |
| Microtiter Plate | EP52 | 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. 4-Methylumbelliferyl: CAS# 3368-04-5, MgCl₂: CAS# 7786-30-3, and 90% Diethanolemine: CAS# 111-42-2. See health hazard data below.
4. Refer to ingredients and hazard information for Assay Buffer (above).

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:

Catalog number ESS-MUP contains 4-Methylumbelliferyl. This chemical is toxic by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing, gloves and eye/face protection. Do not breathe vapor. In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. If inhaled, remove to fresh air. If swallowed, wash out mouth with water, provided the person is conscious and seek medical attention immediately.

Catalog number EDD-MUP contains $MgCl_2$ and Diethanolemine. These chemicals may be toxic by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing, gloves and eye/face protection. Do not breathe vapor. In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. If inhaled, remove to fresh air. If swallowed, wash out mouth with water, provided the person is conscious and seek medical attention immediately.

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

Upon receipt, all components of the kit should be stored at 2-8°C. For prolonged storage (>2 weeks), store Wash Buffer Concentrate, Assay Buffer, Substrate, Substrate Diluent and Stop Solution at $\leq -20^\circ C$.

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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