

Material Safety Data Sheet

Peroxidase Assay Kit

Revision Number: 1.0

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Product and Company Identification

Trade Name: **Peroxidase Assay Kit**
Catalog Number: Z5030052
Manufacturer/Supplier: Biochain Institute, Inc.
39600 Eureka Drive
Newark, CA 94560. USA
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Components

Item Number	Name	Quantity
Z5030052	Assay Buffer	20 mL
	Dye Reagent	60 µL
	Stabilized H ₂ O ₂	100 µL
	Stop Reagent	12 mL
	Calibrator	5 mL

Hazards Identification

Mixture of the following substances with non-hazardous additions.

<u>Assay Buffer</u>	
Potassium Phosphate (CAS# 7758-11-4)	<2.00%
<u>Dye Reagent</u>	
Amplifu Red (CAS# 119171-73-2)	<0.60%
<u>Stabilized H₂O₂</u>	
Hydrogen peroxide (CAS #: 7722-84-1)	3.000%
<u>Stop Reagent</u>	
Potassium Hydroxide (CAS# 1310-58-3)	<0.40%
<u>Calibrator</u>	
Phenol Red (CAS# 143-74-8)	<0.01%

Health Hazard Data: corrosive, irritant. Harmful in contact with skin and eyes.

Avoid contact and inhalation. Standard laboratory safety procedures should be followed when handling this product. Safety procedures include wearing OSHA approved safety glasses, gloves and protective clothing.

First Aid Measures

If eye or skin contact occurs, immediately wash affected area with soap and copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician to seek medical advice.

If swallowed, wash out mouth with water provided person is conscious and call a physician to seek medical advice.

If inhaled, move individual to fresh air and call a physician to seek medical advice.

Fire Fighting Measures

Extinguishing media: water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special firefighting procedures: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards: emits toxic fumes under fire conditions.

Handling and Storage

Keep receptacles tightly sealed. Store Assay Buffer and Dye Reagent at -20°C, all other reagents at 4°C.

Accidental Release Measures

Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

Exposure Controls / Personal Protection

Keep away from foodstuffs and beverages. Wash hands before and after the work. Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

Stability and Reactivity

Thermal Decomposition: no decomposition if used according to specifications.

Dangerous Products of Decomposition: nitrogen and carbon oxides.

Dangerous Reactions: avoid reaction with strong acids and strong oxidizing agents.

Toxicological Information

Inhalation:	Harmful if inhaled
Ingestion:	Harmful if swallowed
Skin:	causes skin irritation
Eyes:	cause eye irritation
Target Organs /	respiratory system, skin and
Chronic Exposures:	eyes.

Ecological Information

Do not allow product to reach ground water, water course, or sewage system.

Disposal Considerations

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Consult local, state or national regulations for proper disposal.

Other Information

This material is sold for research purposes only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Biochain shall not be held liable for any damage resulting from handling or from contact with the above product.