

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Mitochondria Activity Assay Kit
Catalog # KC310100
Manufacturer BioChain Institute, Inc.
 39600 Eureka Drive
 Newark, CA 94560
 USA
 510.783.8588 or 1.888.762.2568
 Email: info@biochain.com
Emergency Phone # Contact your local hazardous material control center.
 Call 911 in case of medical emergency.

Section 2. Hazards Identification

GHS Classification

Acute toxicity, Oral (Category 4), H302
 Skin irritation (Category 2), H315
 Eye irritation (Category 2A), H319

GHS Label elements, including precautionary statements

Pictogram:



Signal word: Warning

Hazard statements

H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear eye protection/ face protection.
 P280 Wear protective gloves.
 P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before reuse.
 P501 Dispose of contents/ container to an approved waste disposal plant.

Section 3. Composition and Information on Ingredients

Component/Item (and Parts number if listed)

Components/Item	Part Number
1. Enzyme Assay Buffer (5x)	KC310100-1
2. Enzyme Dilution Buffer (2x)	KC310100-2
3. Cytochrome C	KC310100-3
4. Dithiothreitol (DTT) solution (10x)	KC310100-4
5. n-Dodecyl β -D-Maltoside solution (100x)	KC310100-5
6. Cytochrome C Oxidase Positive Control	KC310100-6

This product contains the following components and mixture of the following substances with non-hazardous additions.

Enzyme Assay Buffer (5x): No hazardous ingredients.
 Enzyme Dilution Buffer (2x): No hazardous ingredients.
 Cytochrome C: No hazardous ingredients.

Dithiothreitol (DTT) solution (10x): DL-Dithiothreitol (CAS # 3483-12-3): 10-30%

n-Dodecyl β -D-Maltoside solution (100x): No hazardous ingredients.

Cytochrome C Oxidase Positive Control: No hazardous ingredients.

Section 4. First Aid Measures

Skin: Wash exposed skin with mild soap and water. Get medical attention if irritation develops or persists.

Eyes: Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

Inhalation: Move victim to fresh air. If irritation persists, get medical attention.

Ingestion: If affected person is conscious, give plenty of water to drink. Seek medical attention. Wash contaminated clothing before reuse.

Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable.

Flash Points: Not available.

Fire Fighting Procedures:

Small Fire: Use DRY chemical powder.

Large Fire: Use water spray, fog or foam. Do not use water hose.

Section 6. Accidental Release Measures

Small Spill and Leak:

Absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Section 7. Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Storage: Store at -20°C .

Section 8. Exposure Controls/Personal Protection

Ensure that eyewash stations and safety showers are proximal to the work-station location.

Eyes and Face: Splash goggles.

Body: Lab coat.

Respiratory: Be sure to use NIOSH/MSHA approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands: Gloves.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Components/Item	Physical state	Color	odor
1. Enzyme Assay Buffer (5x)	Liquid	Clear	none
2. Enzyme Dilution Buffer (2x)	Liquid	Clear	none
3. Cytochrome C	Solid	Dark red	none
4. Dithiothreitol (DTT) solution (10x)	Liquid	Clear	unpleasant
5. n-Dodecyl β -D-Maltoside solution (100x)	Liquid	Clear	none
6. Cytochrome C Oxidase Positive Control	Liquid	Pale-orange, semi-clear	none

Section 10. Stability and Reactivity

Stability and Reactivity: The product is stable under recommended storage conditions.

Incompatibility with Various Substances No decomposition if used according to specifications. No dangerous reactions known.

Section 11. Toxicological Information

Primary Irritant Effects: Harmful if ingested.

On the Eye: Cause eye irritation.

Sensitization: No sensitizing effects known.

Section 12. Ecological Information

Data not yet available.

Section 13. Disposal Considerations

Waste Information:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to hazardous waste disposers.

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

DOT (US) Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous goods

Section 15. Regulatory Information

EINECS: Not available.

European Information: Irritating to eyes, skin, and respiratory system. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Section 16. Other Information

The information contained in this SDS was obtained from sources we believe are reliable. However, the above information is provided without warranty, expressed or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.