



Food Science Division

## MSDS

Aqueous CUPRAC Antioxidant Assay

Product Number: FS02

Aliquot: 1 Kit

## Material Safety Data Sheet

**Product Name:** Aqueous CUPRAC Antioxidant Assay

**Product Number:** FS02

**Manufacturer:**

Oxford Biomedical Research  
2165 Avon Industrial Dr.  
Rochester Hills, MI 48309  
(248) 852-8815

**Components:**

<u>Description</u>	<u>Quantity</u>
Developing Solution containing Bathocuproinedisulfonic Acid	85 mL
Copper Solution	25 mL
Tris Solution	25 mL
Trolox Standard Lyophilized Powder	1 Vial

The components listed above are provided and produced by Oxford Biomedical Research as components of an *in vitro* diagnostic test kit for the sole purpose of research use and to be used in accordance with the kit instruction.

## Hazards

The physical, chemical and toxicological properties of these components have not been fully investigated. Standard laboratory and safety procedures should be used when handling this product or components therein. This includes, but is not limited to, wearing OSHA approved safety glasses, gloves and protective clothing. Avoid direct physical contact with the components of this product.

**Special Hazard Considerations:**

- Copper Solution: Copper is toxic and considered harmful to the environment. Harmful if swallowed.
- Tris Solution: Harmful if swallowed.
- Dilution Buffer: Possible irritant to the eyes and skin.
- Trolox Standard: Possible irritant to the eyes and skin.

**Ingestion:** If swallowed wash out the mouth with water provided that the person is conscious. Call a physician and/or poison control.

**Skin Contact:** Remove affected clothing, shoes, etc. Flush affected areas with copious amounts of water followed by washing with soap and water for a minimum of 15 minutes. Contact a physician.

- Inhalation:** Remove from the contaminated air space. If breathing becomes difficult, administer oxygen. If breathing stops then administer artificial respiration. Contact a physician.
- Eye Contact:** Flush eyes with copious amounts of water for a minimum of 15 minutes while separating eyelids. Remove contact lenses if present. Contact a physician.

### Fire Fighting Measures

The components and materials provided in this kit pose no significant risk in the event of fire. Extinguishing media should be used that is most appropriate to the surrounding areas. It is recommended that firefighters wear protective gear and self-contained breathing apparatus to minimize exposure. Kit components emit toxic fumes under fire conditions.

### Accidental Release Measures

Shut off all ignition sources and ventilate the area. Wear appropriate protective gear. Wipe or pick-up materials, place in a sealed container, and dispose of in accordance with Federal, State and Local Government regulations. Wash the spill site thoroughly with soap and water.

### Handling and Storage

Store kit as recommended on the product label or each individual component. All components and its contents should be stored in closed containers. This product should be handled by qualified, trained professionals.

### Stability and Reactivity

- Copper Solution: Stable/ not reactive; Avoid fine powdered metals.
- Tris Solution: Stable/ not reactive; Avoid strong oxidizing agents.
- Developing Solution: Stability and reactivity of this solution has not been thoroughly investigated; Avoid strong oxidizing agents.
- Trolox Standard: Stable/ not reactive.

### Toxicological Information

- Copper Solution: Causes skin and eye irritation. May be harmful if inhaled, swallowed and/ or adsorbed through the skin. Target organs: Kidney, Liver, Blood.
- Tris Solution: Causes skin and eye irritation. May be harmful if inhaled, swallowed and/ or adsorbed through the skin. Properties of this material has not been fully investigated.
- Developing Buffer: Causes skin and eye irritation. May be harmful if inhaled, swallowed and/ or adsorbed through the skin. Target organs: Eyes, Kidney, Liver, Blood, Heart, Nervous System.
- Trolox Standard: Causes skin and eye irritation. May be harmful if inhaled, swallowed and/ or adsorbed through the skin. Properties of this material has not been fully investigated.

### Ecological Information

- Copper Solution: Kidney, Liver, Blood. The copper solution is harmful to the environment and should proper handling and disposal practices regarding this component.
- Tris Solution: No data available.

- Developing Buffer: No data available.
- Trolox Standard: No data available.

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