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## Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

**Product name : Citrate Synthase Assay Kit**

**Product Number : CSE1**

Brand : Detroit R&D

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet

Company : Detroit R&D

2727 Second Ave, Suite 4113

Detroit MI 48201

USA

Telephone : +1 313-961-1606

Fax : +1313-963-7130

#### 1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

This is a summary MSDS for a kit

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor/ physician.  
 P321 Specific treatment (see supplemental first aid instructions on this label).  
 P363 Wash contaminated clothing before reuse.  
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents/ container to an approved waste disposal plant.  
 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Extraction Buffer (50 mM Tris-HCl, 1 mM EDTA)	25.0 mL	
Reaction Buffer (Tris-HCl, 10% Triton-X)	1.1 mL	
Dinitrothiobenzene (DTNB) (26.5 mg/mL)	15.0 uL	
Citrate Synthase Enzyme (300 mU)	1.0 mL	
Acetyl-CoA Mix (0.5 mL)	0.5 mL	
Oxaloacetate Mix (10 mL)	10.0 mL	

### 4. First Aid Measures

**Ingestion:** Provided the person is conscious, wash out mouth with water. Seek medical attention immediately. Do not induce vomiting unless directed by medical personnel.

**Inhalation:** Remove person to fresh air. If breathing becomes difficult or stops, administer oxygen or artificial respiration via trained personnel. Seek immediate medical attention.

**Skin Contact:** Immediately remove any contaminated clothing and wash affected area extensively with soap and water. If symptoms ensue seek medical attention.

**Eye Contact:** Separate eyelids, remove any contact lenses present and flush eyes with ample amounts of water for a minimum of 15 minutes. Seek medical attention.

**5. Fire Fighting Measures:** The components included in this product pose no major risk of fire. If one does occur, use appropriate extinguishing media.

**6. Accidental Release Measures:** Wear appropriate protective gear. Absorb the spill with an inert material and dispose of according to proper regulations. Ventilate the contaminated area and wash down the area with soap and water.

**7. Handling and Storage:** Store all components in closed containers and at the correct temperature, as specified by the component label (and spec sheet). Wear gloves and avoid physical contact if possible. Wash hands after handling.

**7. Stability and Reactivity:** Given the correct storage procedures are followed, the components are stable until the listed expiration date.

**8. Toxicological Information:** The toxicological effects of these components have not been extensively studied.

**9. Ecological Information:** Not available.

**10. Disposal Information:** Dispose of according to all Federal, State, and Local regulations.

**11. Transportation:** Not restricted for IATA