

## Safety Data Sheet

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Catalog Number: MET-5122  
Product Name: Indole Assay Kit  
Recommended Use: Laboratory Research Reagents

**MANUFACTURER:**

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### SECTION 2. HAZARDS IDENTIFICATION

Indole Standard (Part No. 51221B): One 1 mL vial at 10 mM.

**Classification:**

Acute toxicity, Category 3 (H301)  
Eye irritation, Category 2A (H319)

<b>Pictogram</b>	
<b>Signal Word</b>	Danger
<p><b>Hazard Statements:</b> Harmful if swallowed (H302). Toxic in contact with skin (H311). Causes skin irritation (H315). Causes serious eye damage (H318). May cause respiratory irritation (H335). Very toxic to aquatic life with long lasting effects (H410).</p>	
<p><b>Precautionary Statements:</b> Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray (P261). Wash skin thoroughly after handling (P264). Do not eat, drink or smoke when using this product (P270). Use only outdoors or in a well-ventilated area (P271). Avoid release to the environment (P273). Wear protective gloves/ eye protection/ face protection (P280). IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell (P301 + P312). IF ON SKIN: Wash with plenty of soap and water (P302 + P352). IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304 + P340). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338). Immediately call a POISON CENTER/doctor (P310). Specific measures (see supplemental first aid instructions on this label) (P322). Rinse mouth (P330). If skin irritation occurs: Get medical advice/ attention (P332 + P313). Remove/ Take off immediately all contaminated clothing (P361). Collect spillage (P391). Store in a well-ventilated place.</p>	


Keep container tightly closed (P403 + P233). Store locked up (P405). Dispose of contents/ container to an approved waste disposal plant (P501).

Assay Reagent A (Part No. 51222A): One 3 mL bottle.

**Classification:**

Acute toxicity, Category 3 (H301)

Eye irritation, Category 2A (H319)

<b>Pictogram</b>	
<b>Signal Word</b>	Danger
<b>Hazard Statements:</b> Toxic if swallowed (H301), Causes serious eye irritation (H319).	
<b>Precautionary Statements:</b> Wash skin thoroughly after handling (P264), Do not eat, drink, or smoke when using this product (P270), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF SWALLOWED: Immediately call a POISON CENTER / doctor. Rinse mouth (P301 + P310 + P330), IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338), If eye irritation persists: get medical advice/attention (P337 + P313), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).	

Assay Reagent B (Part No. 51223A): One 5 mL bottle.

**Classification:**

Corrosive to metals (Category 1), H290

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Dermal (Category 4), H312

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Skin sensitisation (Category 1), H317

Carcinogenicity (Category 2), H351

Specific target organ toxicity - repeated exposure (Category 2), H373

Acute aquatic toxicity (Category 1), H400


<b>Pictogram</b>	
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<b>Signal Word</b>	Warning
<p><b>Hazard Statements:</b> May be corrosive to metals (H290). Harmful if swallowed or in contact with skin (H302 + H312) Causes skin irritation (H315). May cause an allergic skin reaction (H317). Causes serious eye irritation (H319). Suspected of causing cancer (H351). May cause damage to organs through prolonged or repeated exposure (H373). Very toxic to aquatic life (H400).</p>	
<p><b>Precautionary Statements:</b> Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Keep only in original container (P234). Do not breathe dust/ fume/ gas/ mist/ vapours/ spray (P260). Wash skin thoroughly after handling (P264). Do not eat, drink or smoke when using this product (P270). Contaminated work clothing should not be allowed out of the workplace (P272). Avoid release to the environment (P273). Wear protective gloves/ protective clothing/ eye protection/ face protection (P280). <b>IF SWALLOWED:</b> Call a POISON CENTER/doctor if you feel unwell. Rinse mouth (P301 + P312 + P330). <b>IF ON SKIN:</b> Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. P305 + P351 + P338 <b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P302 + P352 + P312). <b>IF exposed or concerned:</b> Get medical advice/ attention (P308 + P313). If skin irritation or rash occurs: Get medical advice/ attention (P333 + P313). If eye irritation persists: Get medical advice/ attention (P337 + P313). Take off contaminated clothing and wash before reuse (P362). Absorb spillage to prevent material damage (P390). Collect spillage (P391). Store locked up (P405). Store in corrosive resistant container with a resistant inner liner (P406). Dispose of contents/ container to an approved waste disposal plant (P501).</p>	

Assay Reagent C (Part No. 51224A): One 13 mL bottle.

**Classification:**

Flammable liquids, Category 2 (H225)  
 Oxidizing liquids, Category 1 (H271)  
 Corrosive to metals, Category 1 (H290)  
 Acute toxicity, Oral, Category 4 (H302)  
 Skin corrosion, Category 1B (H314)  
 Serious eye damage, Category 1 (H318)  
 Specific target organ toxicity - repeated exposure, oral, Category 2, Gastrointestinal tract (H373)  
 Specific target organ toxicity - single exposure, Category 3, Central nervous system (H336)

<b>Pictogram</b>	
<b>Signal Word</b>	Danger
<p><b>Hazard Statements:</b> Highly flammable liquid and vapour (H225), May cause fire or explosion; strong oxidizer (H271), May be corrosive to metals (H290), Harmful if swallowed (H302), Causes severe skin burns and eye damage (H314), Causes serious eye damage (H318), May cause drowsiness or dizziness (H336), May cause damage to organs (thyroid) through prolonged or repeated exposure (H373).</p>	

**Precautionary Statements:** Keep away from heat/sparks/open flames/hot surfaces. No smoking (P210), Keep/Store away from clothing/combustible materials (P220), Take any precaution to avoid mixing with combustibles (P221), Keep container tightly closed (P233), Keep only in original container (P234), Ground/bond container and receiving equipment (P240), Use explosion-proof electrical/ventilating/lighting/equipment (P241), Use only non-sparking tools (P242), Take precautionary measures against static discharge (P243), Do not breathe dust or mist (P260), Avoid breathing dust/fume/gas/mist/vapors/spray (P261), Wash skin thoroughly after handling (P264), Do not eat, drink, or smoke when using this product (P270), Use only outdoors or in a well-ventilated area (P271), Wear protective gloves/protective clothing/eye protection/face protection (P280), Wear fire/flame resistant/retardant clothing (P283), IF SWALLOWED: call a POISON CENTER if you feel unwell. Rinse mouth (P301 + P312 + P330), IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301 + P330 + P331), IF ON SKIN (or hair): Take off immediately all contaminated clothing (P303 + P361 + P353), IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. (P304 + P340 + P310), IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. (P305 + P351 + P338 + P310), IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes (P306 + P360), Get medical advice/attention if you feel unwell (P314), If eye irritation persists: get medical advice/attention (P337 + P313), Wash contaminated clothing before reuse (P363), In case of fire: use dry sand, dry chemical or alcohol-resistant foam for extinction (P370 + P378), In case of major fire and large quantities: Evacuate area. Fight fire remotely due to risk of explosion (P371 + P380 + P375), Absorb spillage to prevent material damage (P390), Store in a well-ventilated place. Keep container tightly closed (P403 + P233), Store in a well-ventilated place and keep cool (P403 + P235), Store locked up (P405), Store in corrosive resistant stainless steel container with a resistant inner liner (P406), Dispose of contents/container to an approved waste disposal plant (P501).

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Indole Standard (Part No. 51221B): One 1 mL vial at 10 mM.

CHEMICAL NAME	CONCENTRATION	CAS #
Indole	10 mM	120-72-9

Assay Reagent A (Part No. 51222A): One 3 mL bottle.

CHEMICAL NAME	CONCENTRATION	CAS #
Proprietary Reagent A	< 6 N	

Assay Reagent B (Part No. 51223A): One 5 mL bottle.

CHEMICAL NAME	CONCENTRATION	CAS #
Proprietary Reagent B	< 1 M	

Assay Reagent C (Part No. 51224A): One 13 mL bottle.

CHEMICAL NAME	CONCENTRATION	CAS #
Proprietary Reagent C	< 6 N	

#### SECTION 4. FIRST-AID MEASURES

- IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
- IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.
- IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

#### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical or CO<sub>2</sub>
- Special protective equipment: Self-contained breathing apparatus

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Evacuate area
- Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
- Absorb with sand or vermiculite, sweep up, place in a bag and hold for waste disposal.
- Avoid raising dust.
- Ventilate area and wash spill site after material pickup is complete.

#### SECTION 7. SAFETY HANDLING AND STORAGE

- Should be handled by trained personnel observing good laboratory practices.
- Avoid breathing vapor.
- Avoid skin contact or swallowing.
- May cause allergic reaction in sensitized individuals.
- Store in properly labeled containers at temperature on label

#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering measures: Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product.
- Personal protective equipment: Face shield or safety glasses, gloves, protective clothing, suitable respiratory equipment in cases of inadequate ventilation.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form: liquid

- Odor: no data available
- pH: no data available
- Boiling point / range: no data available
- Melting point / range: no data available
- Flash point: no data available
- Evaporation rate: no data available
- Vapor pressure: no data available
- Vapor density: no data available
- Relative density: no data available
- Water solubility: no data available
- Autoignition temperature: no data available
- Decomposition temperature: no data available
- Viscosity: no data available
- Explosive properties: no data available
- Oxidizing properties: no data available

#### **SECTION 10. STABILITY AND REACTIVITY**

- Stability: no data available
- Reactivity: no data available
- Conditions to avoid: no data available
- Incompatible materials: no data available
- Decomposition products: no data available

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

- Acute toxicity
  - Indole: LD50 Oral - Rat - 1,000 mg/kg
  - Indole LD50 Dermal - Rabbit - 790 mg/kg
- Skin corrosion/irritation
- Serious eye damage/irritation
  - Indole: Eyes - Rabbit
  - Result: Severe eye irritation - 24 h
- Respiratory or skin sensitization: No data available
- Germ cell mutagenicity: no data available
- Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
- Reproductive toxicity: no data available
- Specific target organ toxicity - single exposure Inhalation –
  - Indole: May cause respiratory irritation.

- Specific target organ toxicity - repeated exposure: No data available
- Aspiration hazard: No data available

## **SECTION 12. ECOLOGICAL INFORMATION**

- Ecotoxicity
  - Indole: Toxicity to daphnia and other aquatic invertebrates LC50 - Daphnia magna (Water flea) - 1 mg/l - 48 h
  - Indole: Toxicity to algae Growth inhibition EC100 - Scenedesmus acuminatus - > 10 mg/l - 96 h
- Persistence and degradability: No data available
- Bioaccumulative potential: No data available
- Mobility in soil: No data available
- Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

For small quantities: Cautiously add to a large stirred excess of water. Adjust the pH to neutral. Flush the aqueous solutions down the drain with plenty of water.

## **SECTION 14. TRANSPORT INFORMATION - IATA**

- Hazard Class: 8
- Subsidiary Class: none
- Packing Group: II
- UN-No: UN2796
  
- Hazard Class: 8
- Subsidiary Class: none
- Packing Group: II
- UN-No: UN1824

NOTE: THIS PRODUCT IS SHIPPED AS "DANGEROUS GOODS IN EXCEPTED QUANTITIES" UNDER IATA REGULATION 2.6.2.2.

## **SECTION 15. REGULATORY INFORMATION**

- SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- SARA 311/312 Hazards Acute Health Hazard
- Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act.
- Pennsylvania Right To Know Components Indole CAS-No. 120-72-9 Revision Date

- New Jersey Right To Know Components Indole CAS-No. 120-72-9 Revision Date
- California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### **SECTION 16. OTHER INFORMATION**

- Full text of H-Statements referred to under sections 2 and 3. Harmful if swallowed (H302). Toxic in contact with skin (H311). Causes skin irritation (H315). Causes serious eye damage (H318). May cause respiratory irritation (H335). Very toxic to aquatic life (H400). Very toxic to aquatic life with long lasting effects (H410). HMIS Rating Health hazard: 2 Chronic Health Hazard: Flammability: 1 Physical Hazard 0 NFPA Rating Health hazard: 2 Fire Hazard: 1 Reactivity Hazard: 0
- Further information: The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide for experienced personnel. Cell Biolabs, Inc. shall not be held liable for any damage resulting from the handling or from contact with the above product(s).

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