

# Material Safety Data Sheet (MSDS) for PathScan® Sandwich ELISA Kit with PathScan® Sandwich ELISA Lysis Buffer



## I. Identification

**Product name:** PathScan® Sandwich ELISA Kit with PathScan® Sandwich ELISA Lysis Buffer

**CAS number:** N/A

**Catalog number:** #7000 Series

**Manufacturer Supplier:**

Cell Signaling Technology  
3 Trask Lane Danvers, MA 01923 USA  
978-867-2300 TEL  
978-867-2400 FAX  
978-578-6737 EMERGENCY TEL

## II. Composition, Information on Ingredients

**Reagents:** In accordance with 29 CFR 1910.1200(d), kit reagents are not considered to be hazardous. They are mixtures that contain less than 1% hazardous chemicals and less than 0.1% carcinogenic chemicals.

**Antibody coated microwells:** Dry complex polypeptides, see MSDS for proteins.

**Detection Antibody (11 ml):** See MSDS for proteins.

**HRP-linked Antibody (11 ml):** 0.5% Kathon® (CAS# 55965-84-9), complex polypeptides.

**20X Wash Buffer (25 ml):** 1% tween-20 (CAS# 9005-64-5), 0.5% Kathon® (CAS# 55965-84-9) in 20X PBS.

**1X Cell Lysis Buffer (25 ml):** 1 mM  $\beta$ -glycerophosphate (Cas# 819-83-0), 1mM EDTA disodium salt (CAS# 6381-92-6), 1 mM EGTA (CAS# 64-42-5), 1 $\mu$ g/ml leupeptin (CAS# 103476-89-7), 150 mM sodium chloride (CAS# 7647-14-5), 20 mM sodium Pyrophosphate (CAS# 13472-36-1) 25 mM Sodium Fluoride (CAS# 007681-49-4), sodium orthovanadate (CAS# 13721-39-6), 20 mM Tris-Cl (CAS# 1185-53-1), Triton X-100 (CAS# 9036-19-5) in water.

**Sample Diluent Buffer (25 ml):** 0.1% Tween-20 (CAS# 9005-64-5), < 0.1% sodium azide (826628-22-8) in 20X PBS.

**TMB Substrate (11 ml):** 0.05% 3,3',5,5' tetramethylbenzidine (CAS# 54827-17-7), 0.1% hydrogen peroxide (CAS# 7722-84-1), complex polypeptides in mildly acidic buffer.

**Stop Solution (11 ml):** 0.05%  $\alpha$  and  $\beta$  unsaturated carbonyl compound.

## III. Health Hazard Data

**Emergency Overview:** No specific hazard.

**Routes of Entry:** Avoid ingestion and inhalation, avoid contact with skin, eyes.

**Threshold Limit Value (TLV) and Source:** Data not available. To the best of our knowledge, the chemical, physical, and toxicological properties of the components of this kit have not been thoroughly investigated.

**Potential Acute Health Effects:** May cause skin, eye, or lung irritation. To the best of our knowledge, the chemical, physical, and toxicological properties of the components of this kit have not been thoroughly investigated. Allergy-prone individuals should be particularly cautious with proteins or other materials of biologic origin.

**Carcinogenic Effects Data:** Not available.

**Chronic Effects of Overexposure:** Not available.

**Solubility in water:** Liquids readily miscible in water.

## IV. Emergency and First Aid Procedures

**Swallowing:** If any component of this kit is swallowed, wash mouth out with water, provided person is conscious. Get immediate medical attention.

**Skin:** If any component of this kit contacts the skin, immediately wash skin with soap and copious amounts of water.

**Inhalation:** If any component of this kit is inhaled, remove to fresh air. If not breathing, perform CPR and get immediate medical attention.

**Eyes:** If any component of this kit contacts the eyes, flush the eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Get immediate medical attention.

## V. Fire and Explosion Hazard Data

**Flammability:** May be combustible at high temperature.

**Flash points:** Not available.

**Extinguishing media:** Use dry chemical.

**Special fire fighting procedures:** Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing.

**Unusual fire and explosion hazards:** None known.

## VI. Physical Data

**Antibody coated microwells**

Physical State and Appearance: solid (microwells)

Melting Point: decomposes

Solubility in water: partially soluble

**Detection Antibody, HRP-linked Antibody, Sample Diluent**

Physical State: solutions

Appearance: green (catalog# 2967), red (catalog# 7076), blue (Sample Diluent)

Boiling point: decomposes

Vapor pressure: not available

Vapor density: not available

Specific gravity: not available

Melting Point: not available

Evaporation Rate: not available

Solubility in water: solutions are dilutable

**20X Wash Buffer, 10X Cell Lysis Buffer, TMB Substrate, Stop Solution**

Physical State and Appearance: clear solutions

Boiling point: not available

Vapor pressure: not available

Vapor density: not available

Specific gravity: not available

Melting Point: not available

Evaporation Rate: not available

Solubility in water: solutions are dilutable

## VII. Stability/Reactivity

**Stability and Reactivity:** The product is stable.

**Conditions to avoid:** not available.

**Materials to avoid:** not available.

**Hazardous Decomposition products:** not available.

## VIII. Toxicology Information

**Toxicity to Animals:** LD50: not available, LC50: Not available.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** May cause slight irritation in case of eye contact, inhalation or ingestion.

## IX. Spill and Leak Procedures

**Steps to be taken if material is spilled or released:** Wear lab coat, chemical resistant gloves and safety glasses. Wipe up spill with a suitable absorbant and dispose of properly. Wash down the spill site.

**Waste disposal method:** Dispose of in accordance with all federal, state and local regulations.

## X. Special Precautions

**Precautions to be taken in handling and storage:** This compound is sold only for research use by personnel familiar with the toxicology of organic chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and not rubbing eyes with hands while working in the laboratory.

This compound is sold only in milliliter quantities for use in biological research. No other use is intended.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide for experienced personnel. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.