**MSDS: Prostaglandin F$_{2a}$ EIA Kit**  
**Product No. EA05**

This EIA Kit, is provided and produced by Oxford Biomedical Research as an in vitro diagnostic test kit for the sole purpose of research use.

**Manufacturer:**
Oxford Biomedical Research  
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Rochester Hills, MI 48309  
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**Section 1 - Hazardous Components:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Hazardous Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIA Buffer</td>
<td>None</td>
</tr>
<tr>
<td>Extraction Buffer</td>
<td>None</td>
</tr>
<tr>
<td>HRP Conjugate</td>
<td>None</td>
</tr>
<tr>
<td>Standard</td>
<td>None</td>
</tr>
<tr>
<td>TMB Substrate</td>
<td>Substrate Ingredient 1</td>
</tr>
<tr>
<td>Wash Buffer</td>
<td>None</td>
</tr>
</tbody>
</table>

**Section 2 - Physical and Chemical Characteristics:**

**EIA Buffer:**
- Boiling Point: ~100°C
- Specific Gravity: Not Determined
- Vapor Pressure: Not Determined
- Melting Point: N/A
- Vapor Density: Not Determined
- Evaporation Rate: Not Determined
- Solubility in Water: Soluble
- Appearance: Clear Liquid

**Extraction Buffer:**
- Boiling Point: ~100°C
- Specific Gravity: Not Determined
- Vapor Pressure: Not Determined
- Melting Point: N/A
- Vapor Density: Not Determined
- Evaporation Rate: Not Determined
- Solubility in Water: Soluble
- Appearance: Clear Liquid
**HRP Conjugate:**
- Boiling Point: ~100°C
- Vapor Pressure: Not Determined
- Vapor Density: Not Determined
- Solubility in Water: Soluble
- Specific Gravity: Not Determined
- Melting Point: N/A
- Evaporation Rate: Not Determined
- Appearance: Clear Liquid

**Standard:**
- Boiling Point: ~100°C
- Vapor Pressure: Not Determined
- Vapor Density: Not Determined
- Solubility in Water: Soluble
- Specific Gravity: Not Determined
- Melting Point: N/A
- Evaporation Rate: Not Determined
- Appearance: Clear Liquid

**TMB Substrate:**
- Boiling Point: 81°C
- Vapor Pressure: 0.29 mm Hg @ 20°C
- Vapor Density: 3.4 (Air = 1)
- Solubility in Water: Soluble
- Specific Gravity: 1.033 (H₂O = 1)
- Melting Point: N/A
- Evaporation Rate: Not Determined
- Appearance: Clear Liquid

**Wash Buffer:**
- Boiling Point: ~100°C
- Vapor Pressure: Not Determined
- Vapor Density: Not Determined
- Solubility in Water: Soluble
- Specific Gravity: Not Determined
- Melting Point: N/A
- Evaporation Rate: Not Determined
- Appearance: Clear Liquid

**Section 3 - Fire and Explosion Hazard Data:**

**EIA Buffer:**
- Flash Point: Not Determined
- Special Fire Fighting Measures: None
- Unusual Fire and Explosion Hazards: Carbon monoxide may be produced upon heating.
- Auto-Ignition Temperature: Not Determined
- Explosion Limits: Upper: Not Determined  Lower: Not Determined

**Extraction Buffer:**
- Flash Point: Not Determined
- Special Fire Fighting Measures: None
- Unusual Fire and Explosion Hazards: Carbon monoxide may be produced upon heating.
- Auto-Ignition Temperature: Not Determined
- Explosion Limits: Upper: Not Determined  Lower: Not Determined

**HRP Conjugate:**
- Flash Point: Not Determined
- Special Fire Fighting Measures: Dry Chemical, CO₂, Water Spray
- Unusual Fire and Explosion Hazards: Carbon monoxide may be produced upon heating.
- Auto-Ignition Temperature: Not Determined
- Explosion Limits: Upper: Not Determined  Lower: Not Determined
Standard:
Flash Point: Not Determined
Special Fire Fighting Measures: Dry Chemical, CO₂, Water Spray
Unusual Fire and Explosion Hazards: Carbon monoxide may be produced upon heating.
Auto-Ignition Temperature: Not Determined
Explosion Limits: Upper: Not Determined Lower: Not Determined

TMB Substrate:
Flash Point: 103.9°C (187°F)
Special Fire Fighting Measures: Dry Chemical, CO₂, Water Spray
Unusual Fire and Explosion Hazards: Carbon monoxide and nitrogen oxides may be produced upon heating.
Auto-Ignition Temperature: Not Determined
Explosion Limits: Upper: 9.5% Lower: 1.3%

Wash Buffer:
Flash Point: Not Determined
Special Fire Fighting Measures: Dry Chemical, CO₂, Water Spray
Unusual Fire and Explosion Hazards: Carbon monoxide and nitrogen oxides may be produced upon heating.
Auto-Ignition Temperature: Not Determined
Explosion Limits: Upper: Not Determined Lower: Not Determined

Section 4 – Reactivity Hazard Data:
EIA Buffer:
Stability: Stable
Conditions to Avoid: N/A
Hazardous Polymerization: Will Not Occur
Hazardous Decomposition/Byproducts: Carbon monoxide or carbon dioxide may be produced upon heating.
Material Incompatibility: Strong Oxidizing Agents

Extraction Buffer:
Stability: Stable
Conditions to Avoid: N/A
Hazardous Polymerization: Will Not Occur
Hazardous Decomposition/Byproducts: Carbon monoxide or carbon dioxide may be produced upon heating.
Material Incompatibility: Strong Oxidizing Agents

HRP Conjugate:
Stability: Stable
Conditions to Avoid: N/A
Hazardous Polymerization: Will Not Occur
Hazardous Decomposition/Byproducts: Carbon monoxide or carbon dioxide upon heating.

Material Incompatibility: Strong Oxidizing Agents

**Standard:**
Stability: Stable
Conditions to Avoid: N/A
Hazardous Polymerization: Will Not Occur
Hazardous Decomposition/Byproducts: Carbon monoxide or carbon dioxide may be produced upon heating.

Material Incompatibility: Strong Oxidizing Agents

**TMB Substrate:**
Stability: Stable
Conditions to Avoid: N/A
Hazardous Polymerization: Will Not Occur
Hazardous Decomposition/Byproducts: Carbon monoxide, carbon dioxide, or nitrogen oxides may be produced upon heating.

Material Incompatibility: Strong Oxidizing Agents

**Wash Buffer:**
Stability: Stable
Conditions to Avoid: N/A
Hazardous Polymerization: Will Not Occur
Hazardous Decomposition/Byproducts: Carbon monoxide, carbon dioxide, or nitrogen oxides may be produced upon heating.

Material Incompatibility: Strong Oxidizing Agents

Section 5 - Health Hazard Data:

**EIA Buffer:**
Exposure Limits: OSHA PEL: N/A       ACGIH TLV: N/A
Toxicity Data: N/A
Health Hazards: None Known
Chronic Exposure: N/A
Target Organs: None Known
First Aid:
Ingestion: Wash mouth out with water if conscious and seek immediate medical attention.
Inhalation: Expose to fresh air and seek immediate medical attention. Give oxygen if breathing is difficult.
Skin: Flush area with water for 15 minutes and seek immediate medical attention if irritation occurs. Remove contaminated clothing.
Eyes: Flush with water for 15 minutes while lifting eyelids and seek immediate medical attention.
**Extraction Buffer:**

- **Exposure Limits:** OSHA PEL: N/A    ACGIH TLV: N/A
- **Toxicity Data:** N/A
- **Health Hazards:** None Known
- **Chronic Exposure:** N/A
- **Target Organs:** None Known
- **First Aid:**
  - Ingestion: Wash out mouth with water if conscious and seek immediate medical attention.
  - Inhalation: Expose to fresh air and seek immediate medical attention. Give oxygen if breathing is difficult.
  - Skin: Flush area with water for 15 minutes and seek immediate medical attention. Remove contaminated clothing.
  - Eyes: Flush with water for 15 minutes while lifting eyelids and seek immediate medical attention.

**HRP Conjugate:**

- **Exposure Limits:** OSHA PEL: N/A    ACGIH TLV: N/A
- **Toxicity Data:** N/A
- **Health Hazards:** None Known
- **Chronic Exposure:** N/A
- **Target Organs:** None Known
- **First Aid:**
  - Ingestion: Wash out mouth if conscious and seek immediate medical attention.
  - Inhalation: Expose to fresh air and seek immediate medical attention. Give oxygen if breathing is difficult.
  - Skin: Flush area with water for 15 minutes and seek medical attention if irritation persists.
  - Eyes: Flush area with water for 15 minutes while lifting eyelids and seek immediate medical attention.

**Standard:**

- **Exposure Limits:** OSHA PEL: N/A    ACGIH TLV: N/A
- **Toxicity Data:** N/A
- **Health Hazards:** None Known
- **Chronic Exposure:** N/A
- **Target Organs:** None Known
- **First Aid:**
  - Ingestion: Wash out mouth with water if conscious and seek immediate medical attention.
  - Inhalation: Expose to fresh air and seek immediate medical attention. Give oxygen if breathing is difficult.
  - Skin: Flush area with water for 15 minutes and seek immediate medical attention. Remove contaminated clothing.
  - Eyes: Flush with water for 15 minutes while lifting eyelids and seek immediate medical attention.
**TMB Substrate:**

- **Exposure Limits:** OSHA PEL: N/A  ACGIH TLV: N/A
- **Toxicity Data:** N/A
- **Health Hazards:** Direct contact with eyes, mucus membranes, skin, or respiratory track may cause irritation.
- **Chronic Exposure:** Overexposure may cause reproductive disorders.
- **Target Organs:** Eyes, Skin, Reproductive Organs
- **First Aid:**
  - Ingestion: Wash out mouth with water if conscious and seek immediate medical attention.
  - Inhalation: Expose to fresh air and seek immediate medical attention. Give oxygen if breathing is difficult.
  - Skin: Flush area with water for 15 minutes and seek immediate medical attention. Remove contaminated clothing.
  - Eyes: Flush with water for 15 minutes while lifting eyelids and seek immediate medical attention.

**Wash Buffer:**

- **Exposure Limits:** OSHA PEL: N/A  ACGIH TLV: N/A
- **Toxicity Data:** N/A
- **Health Hazards:** None Known
- **Chronic Exposure:** N/A
- **Target Organs:** None Known
- **First Aid:**
  - Ingestion: Wash out mouth with water if conscious and seek immediate medical attention.
  - Inhalation: Expose to fresh air and seek immediate medical attention. Give oxygen if breathing is difficult.
  - Skin: Flush area with water for 15 minutes and seek immediate medical attention. Remove contaminated clothing.
  - Eyes: Flush with water for 15 minutes while lifting eyelids and seek immediate medical attention.

**Section 6 - Control Measures:**

- **Respiratory Protection:** None required with proper ventilation.
- **Ventilation:** Requires local exhaust.
- **Protective Gloves:** Proper disposable gloves.
- **Eye Protection:** Safety glasses or goggles.
- **Other Protective Equipment:** Uniform, lab coat, or disposable lab wear.
- **Work/Hygienic Practices:** Follow usual precautionary measures for handling chemicals. Keep away from food and beverages.

**Section 7 - Handling and Use Precautions:**

- **Accidental Release Measures:** Wear suitable protective equipment to prevent inhalation, ingestion, or skin and eye contact. Clean up spills with a sponge, mop, or vermiculite.
- **Waste Disposal:** Disposal shall be in accordance with local, state, or federal guidelines.
Handling and Storage: 4-8°C

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