MSDS: Testosterone EIA Kit  
Product No. EA78

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

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
- 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

**Extraction 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
HRP Conjugate:
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

Standard:
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

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

Wash 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

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:**

<table>
<thead>
<tr>
<th>Exposure Limits:</th>
<th>OSHA PEL: N/A</th>
<th>ACGIH TLV: N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity Data:</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Health Hazards:</td>
<td>Direct contact with eyes, mucus membranes, skin, or respiratory track may cause irritation.</td>
<td></td>
</tr>
<tr>
<td>Chronic Exposure:</td>
<td>Overexposure may cause reproductive disorders.</td>
<td></td>
</tr>
<tr>
<td>Target Organs:</td>
<td>Eyes, Skin, Reproductive Organs</td>
<td></td>
</tr>
<tr>
<td>First Aid:</td>
<td>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.</td>
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**Wash Buffer:**

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<tr>
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<th>OSHA PEL: N/A</th>
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<tbody>
<tr>
<td>Toxicity Data:</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Health Hazards:</td>
<td>None Known</td>
<td></td>
</tr>
<tr>
<td>Chronic Exposure:</td>
<td>N/A</td>
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</tr>
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**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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