Material Safety Data Sheet

I. Product and Company Information

Product name: ELISA kits
Manufacturer’s Information:
Company Name: BlueGene Biotech Co., Ltd
Address: 4th Floor, No.2 Building, Hong Liu Road No.365, PuTuo District, Shanghai, China.
Tel: 0086-21-61471242
Fax: 0086-21-61471242 ext 806
E-mail: sales@bluegene.cc tech@bluegene.cc

II. Data on components

<table>
<thead>
<tr>
<th>MATERIALS</th>
<th>SPECIFICATION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICROTITER PLATE</td>
<td>96 wells</td>
<td>strip well</td>
</tr>
<tr>
<td>ENZYME CONJUGATE</td>
<td>10 mL</td>
<td>1 vial</td>
</tr>
<tr>
<td>STANDARDS</td>
<td>500ul</td>
<td>1 vial</td>
</tr>
<tr>
<td>SUBSTRATE A</td>
<td>6 mL</td>
<td>1 vial</td>
</tr>
<tr>
<td>SUBSTRATE B</td>
<td>6 mL</td>
<td>1 vial</td>
</tr>
<tr>
<td>STOP SOLUTION</td>
<td>6 mL</td>
<td>1 vial</td>
</tr>
<tr>
<td>WASH SOLUTION (100 x)</td>
<td>10 mL</td>
<td>1 vial</td>
</tr>
<tr>
<td>BALANCE SOLUTION</td>
<td>6 mL</td>
<td>1 vial</td>
</tr>
<tr>
<td>INSTRUCTION</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

III. Hazard Identification

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves, and protective clothing. Direct physical contact with all components in this product should be avoided.

<table>
<thead>
<tr>
<th>Known Hazardous Components</th>
<th>CAS Number</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProClin 300</td>
<td>96118-96-6</td>
<td>0.01-0.1%</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>7664-93-9</td>
<td>1N</td>
</tr>
<tr>
<td>3,3',5,5'-Tetramethylbenzidin: Substrate Solution</td>
<td>54827-17-7</td>
<td>&lt; 0.04</td>
</tr>
<tr>
<td>EDTA</td>
<td>6381-92-6</td>
<td>&lt; 0.1</td>
</tr>
</tbody>
</table>
### IV. First Aid Measures

**Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Call a physician or poison control.

**Skin Contact:** Flush with copious amounts of water and wash with soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician if irritation or discomfort develops.

**Inhalation:** Remove to fresh air. If breathing becomes difficult give oxygen. If breathing stops, administer artificial respiration. Call a physician.

**Eye Contact:** Flush with copious amounts of water for at least 15 minutes. Check for and remove contact lenses. Assure adequate flushing by separating the eyelids. Call a physician.

If medical attention is required, provide product label and/or MSDS.

### V. Fire Fighting Measures

**Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Protective equipment:** No special measures required.

### VI. Accidental Release Measures

**Person-related safety precautions:** Not required

**Measures for environmental protections:**
Dilute with plenty of water.

Do not allow to enter sewers / surface or ground water.

**Measures for cleaning / collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### VII. Handling and storage

**Handling:** Advices on safe handling: Protective measures: wear protective clothing

Precautions against fire and explosion: Development of explosive atmosphere is not possible

**Storage:** Technical measures and storage conditions: Storage in light-proof, well closed containers.

**Packaging materials:** Containers made of polyethylen are suitable.

**Requirements for storage rooms and vessels:** Prevent direct sunlight and heat. Store in well aired storage rooms.

**Further information on storage conditions:**

- Storage temperature: 2°C - 4°C
- Storage stability: stable
- Maximal storage period: 12 months
VIII. Physical and Chemical Properties

**Substrate Solution**
- **Physical State:** Liquid
- **Colour:** Yellowish or bluish
- **Odour:** Odourless
- **pH (20 °C):** about pH 3, acid
- **Melting Point (°C):** N/A
- **Boiling Point (°C):** N/A
- **Ignition temperature (°C):** N/A
- **Vapour Pressure:** N/A
- **Density:** N/A
- **Water solubility:** very well soluble
- **Viscosity, dynamic (mPa s):** N/A
- **Explosion limits:** mixture is not explosive

**Stop Solution**
- **Physical State:** Liquid
- **Colour:** Colourless
- **Odour:** Odourless
- **pH (20 °C):** about pH 2, acid
- **Melting Point (°C):** about 150°C
- **Boiling Point (°C):** N/A
- **Ignition temperature (°C):** N/A
- **Vapour Pressure:** N/A
- **Density:** N/A
- **Water solubility:** very well soluble
- **Viscosity, dynamic (mPa s):** N/A
- **Explosion limits:** mixture is not explosive

IX. Stability and Reactivity

Stable under mentioned storage conditions

**Conditions to avoid:** Direct sunlight, high temperature

There’s no dangerous reaction but the Substrate Solution will be defective.

**Materials to avoid:**
- **Substrate Solution:** Heavy metal salt. There’s no dangerous reaction but the Substrate Solution will be defective.
- **Stop Solution:** Bases (cause heat development), powdery metals (heat development and dynamics of the reaction depends on the acid concentration)

X. Toxicological Information

**Route of entry:** Skin Contact, Eye contact, Inhalation, Ingestion

**Effects of acute exposure to Product:**
Contact with skin or eyes may cause severe irritation or burns. Vapors may be irritating to eyes, nose, and throat. Poison may be fatal if swallowed, causes burns.
Effects of chronic exposure to Product:
Long term exposure to mist or vapors may cause damage to teeth. Chronic exposure to mists containing sulfuric acid is a cancer hazard.

XI. Ecological information
Do not allow product to reach ground water, water course, or sewage system.

XII. Disposal considerations
Waste disposal: dispose of in accordance with local official environmental regulations.

XIII. Transport information
Official transport designation: Substrate Solution, Stop Solution, and Research reagents because product is no dangerous good, no specific codes or labes are necessary.
Regulations
Labeling: Observe the general safety regulations when handling chemicals. The product has been classified and marked.
Code letter and hazard designation of product: C Corrosive

XIV. Other information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. BlueGene shall not be held liable for any damage resulting from handling or from contact with the above product.