

**Product Identification****Code No.** 27167**Product Name** Rat Big Endothelin-1 Assay Kit - IBL**Manufactures**

Immuno-Biological Laboratories Co., LTD.

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URL: <http://www.ibl-japan.co.jp> E-Mail: [do-ibl@ibl-japan.co.jp](mailto:do-ibl@ibl-japan.co.jp)**1. Kit Components**

1	Precoated plate:	Anti-Big Endothelin <sup>22-38</sup> Rabbit IgG Affinity Purify	96Well x 1
2	Labeled antibody Conc:	(30X) HRP conjugated Anti-Endothelin-1 Rabbit IgG Fab' Affinity Purify	0.4mL x 1
3	Standard:	Rat Big Endothelin-1	0.5mL x 2
4	EIA buffer:	1% BSA, 0.05% Tween 20 in PBS	30mL x 1
5	Solution for Labeled antibody:	1% BSA, 0.05% Tween 20 in PBS	12mL x 1
6	Chromogen:	Tetra Methyl Benzidine (TMB) solution	15mL x 1
7	Stop solution:	1N H <sub>2</sub> SO <sub>4</sub>	12mL x 1
8	Wash buffer Conc:	(40X) 0.05% Tween20 in phosphate buffer	50mL x 1

**2. Known Hazardous Components**

<u>Component</u>	<u>CAS Number</u>	<u>Percent</u>
<b>sodium azide</b> (3 Standard)	26628-22-8	0.05%
<b>sulphuric acid</b> (7 Stop solution)	7664-93-9	2.8%

*Additional information***The kit does not contain thimerosal.**

It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Direct physical contact with all components in this product should be avoided.

**3. First Aid Measures**

- Swallowing:** Wash out mouth with water provided person is conscious. If symptoms persist, consult a doctor.
- Skin contact:** Immediately wash with water and soap and rinse thoroughly.
- Inhalation:** Supply fresh air; consult doctor in case of complaints. In case of unconsciousness place patient stably in side position for transportation.
- Eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**4. Fire Fighting Measures***Suitable extinguishing agents*

CO<sub>2</sub>, powder or water spray. Fight large fires with water spray or alcohol resistant foam.

**5. Accidental Release Measures**

- Person-related safety precautions:** Not required.
- Measures for environmental protection:** 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). Ensure adequate ventilation.

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## 6. Handling and Storage

### Handling

**Information for safe handling:** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

**Information about fire - and explosion protection:** No special measures required.

### Storage

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep receptacle tightly sealed.

## 7. Exposure Control and Personal Protection

**Additional information about design of technical facilities:** No further data; see item 6.

### **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists valid during the making were used as basis.

### *Personal protective equipment*

#### **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

#### **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use self-contained respiratory protective device.

#### **Protection of hands:**

Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### **Penetration time of glove material:**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles.

## 8. Stability and Reactivity

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Dangerous reactions:** No dangerous reactions known

**Dangerous decomposition products:** No dangerous decomposition products known

## 9. Toxicological Information

### **Acute toxicity**

#### **Primary irritant effect**

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

## 10. Physical and Chemical Properties

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## **sodium azide**

<b>General Information:</b>	Form: Powder Colour: According to product specification Odour: Odourless
<b>Change in condition:</b>	Melting point/Melting range: undetermined Boiling point/Boiling range: undetermined
<b>Flash point:</b>	Not applicable
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Density:</b>	Not determined
<b>Solubility in / Miscibility with water:</b>	Fully miscible

## **sulphuric acid**

<b>General Information:</b>	Form: liquid Colour: colourless Odour: Odourless
<b>Change in condition:</b>	Melting point/Melting range: undetermined Boiling point/Boiling range: undetermined
<b>Flash point:</b>	Not applicable
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Density:</b>	Not determined
<b>Solubility in / Miscibility with water:</b>	Fully miscible

### **11. Disposal Consideration**

#### ***Product***

**Recommendation:** Dilute concentrate with water and neutralize afterwards with suitable alkali material (sodium hydroxide solution, lime). The formed neutral salts are relatively environment-friendly.

#### **Uncleaned packaging**

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### **12. Ecological Information**

Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

### **13. Transport Information**

Make sure of no leaks; do not tip over, drop, or damage the product in transit.

### **14. Other information**

The above information is believed to be correct but does not purport to be all-inclusive and shall be used as a guide. Immuno-Biological Laboratories Co., LTD. shall not be held liable for any damage resulting from handling or contact with the above product. The burden of safe use of these materials rests solely with the user.