

**Product line: # 27701 - # 27998****ELISA Kits**

27710	Human Amyloid $\beta$ (1-43) (FL) ELISA	27750	Human ANGPTL3 (highly sensitive) Assay Kit - IBL
27711	Human Amyloid $\beta$ (1-42) Assay Kit - IBL	27751	Human Tenascin-C Large (FNIII-C) Assay Kit - IBL
27712	Human Amyloid $\beta$ (1-42) (N) Assay Kit - IBL	27752	BACE1 Assay Kit - IBL
27713	Human Amyloid $\beta$ (1-40) Assay Kit - IBL	27755	Human Galectin-3 Assay Kit - IBL
27714	Human Amyloid $\beta$ (1-40) (N) Assay Kit - IBL	27756	Human VEGF-C Assay Kit-IBL
27716	Human Amyloid $\beta$ (N3pE-42) Assay Kit - IBL	27758	Human Napsin A Assay Kit-IBL
27717	Human Amyloid $\beta$ (1-38) (FL) Assay Kit - IBL	27762	$\alpha$ 2, 6-Sialyltransferase Assay Kit - IBL
27718	Human Amyloid $\beta$ (1-40) (FL) Assay Kit - IBL	27764	Mouse GIP, Active form Assay Kit - IBL
27719	Human Amyloid $\beta$ (1-42) (FL) Assay Kit - IBL	27765	Rat N-ERC/Mesothelin Assay Kit - IBL
27720	Mouse/Rat Amyloid $\beta$ (1-40) High Specific Assay Kit - IBL	27766	Bisphenol A (BPA) Assay Kit - IBL
27721	Mouse/Rat Amyloid $\beta$ (1-42) Assay Kit - IBL	27767	Tenascin-C Large (FNIII-B) Assay Kit - IBL
27725	Human Amyloid $\beta$ Oligomers (82E1-specific) Assay Kit - IBL	27768	Mouse IL-6 Assay Kit - IBL
27729	Human Amyloid $\beta$ (1-x) Assay Kit - IBL	27769	Human LRG Assay Kit - IBL
27731	Human sAPP, Total (highly sensitive) Assay Kit - IBL	27770	Rat LRG Assay Kit - IBL
27732	Human sAPP $\beta$ -w (highly sensitive) Assay Kit - IBL	27773	Mouse CCL8/MCP-2 Assay Kit - IBL
27733	Human sAPP $\beta$ -sw (highly sensitive) Assay Kit - IBL	27775	Human Leptin (highly sensitive) Assay Kit - IBL
27734	Human sAPP $\alpha$ (highly sensitive) Assay Kit - IBL	27776	Human APP $\beta$ CTF Assay Kit - IBL
27736	Human APP770 Assay Kit - IBL	27779	Human VEGFR-3/Flt-4 Assay Kit - IBL
27745	Human ANGPTL2 Assay Kit - IBL	27782	soluble (Pro)renin Receptor Assay Kit - IBL
27734	Human sAPP $\alpha$ (highly sensitive) Assay Kit - IBL	27783	Mouse N-ERC/Mesothelin Assay Kit - IBL
27749	Human ANGPTL4 Assay kit - IBL	27784	GLP-1, Active form Assay Kit - IBL
		27785	Mouse LRG Assay Kit - IBL
		27998	Human soluble $\alpha$ -Klotho Assay Kit - IBL

# IBL Material Safety Data Sheet

## 1. Identification of substance/mixture and company information

Product : Listed on the front cover.


Product detail : Stop Solution

### Manufacturer :

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TEL: +81 (0)274-22-2889 FAX: +81 (0)274-23-6055  
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## 2. Composition/information on ingredients

- **Chemical characterization:** Mixture (1N, 0.5 mol/L)
- **Description:** Mixture of substances below contained in water with following concentration.

Dangerous components:	CAS Number	Percent (w/v) %
Sulphuric acid 	7664-93-9	4.9 %

- **Additional information:** This product is exempted from the deleterious materials under control law in Japan.

## 3. Hazard identification

- **Main hazard:** Acute toxicity, corrosive, strong acidity
- **Flammability:** Non flammability
- **Potential health effect:**
  - Skin** Corrosive. Severe burn can occur.
  - Eyes** Corrosive. Can cause blindness.
  - Ingestion** Corrosive. Swallowing can cause severe burns of the mouth, throat and stomach, leading to death. Can cause sore throat, vomiting and diarrhea. Circulatory shock is often the immediate cause of death.
  - Inhalation** Inhalation produces damaging effects on the mucous membranes and upper respiratory tract. Symptoms may include irritation of the nose and throat and labored breathing. May cause lung edema, a medical emergency.

## 4. First aid measures

- **After eye contact:**  
Hold eyelids open and immediately rinse with cool running water for at least 15 minutes, and seek medical attention after rinsing.
- **After skin contact:**  
Wash thoroughly with soap and water. Rinse for 15 minutes. Discard contaminated clothing. Seek medical attention.
- **After swallowing:**  
Do not induce vomiting. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Call a doctor immediately.
- **After inhalation:**  
Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Call a doctor immediately.

## 5. Fire fighting measures

- **Flammability:** Non-flammable
- **Suitable extinguishing agents:** Use dry chemical foam or CO<sub>2</sub>. Don't use water. Water spray can

*For research use only, not for use in diagnostic procedures.*

Immuno-Biological Laboratories Co., Ltd.

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- be used to prevention of spread of a fire.
- **Protective equipment:** No special measures required.

#### 6. Accidental release measures

- **Person-related safety precautions:** Wear acid resistant boots, face-shield, chemical splash goggles and acid resistant gloves.
- **Small spills:** Neutralize with soda ash or lime. Cover spill and mix well until pH is neutral. Do not use organic material such as saw dust. Collect into sealable container and dispose of as hazardous waste.
- **Large spills:** Contain and collect as much as possible in suitable containers. Dam and neutralize with soda ash or lime. Absorb with sand or vermiculite and collect in sealable containers. Do not use organic material such as sawdust. Dispose of as hazardous waste.

#### 7. Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Don't get in eyes, on skin, or on clothing.  
Don't ingest or inhale.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated area away from incompatible substances.

#### 8. Exposure control and personal protection gear

- **Engineering controls:** Provide exhaust ventilation of other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
- **Personal protective equipment:** Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

#### 9. Physical and chemical properties (H<sub>2</sub>SO<sub>4</sub> solution)

· <b>Form:</b>	liquid
· <b>Color:</b>	colorless
· <b>Odor:</b>	odorless
· <b>pH:</b>	0.3 (1N solution)
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	undetermined
<b>Boiling point/Boiling range:</b>	undetermined
· <b>Flash point:</b>	Not applicable
· <b>Self-igniting:</b>	Product is not self-igniting.
· <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

#### 10. Stability and reactivity

- **Stability:** Stable under normal condition.
- **Conditions to avoid:** Heat, moisture and incompatibles. Prevent smoking, fires and any other source of ignition around lead acid batteries. Battery electrolyte will react with water to produce heat. Can react with oxidizing or reducing agent. Do not allow acid to mix with any material unless the material is a known compatible.
- **Incompatible materials:** Water, potassium chlorate, potassium perchlorate, potassium permanganate, sodium, lithium, bases, organic material, halogens, metal acetylides, oxides and hydrides, metals, strong oxidizing or reducing agents.
- **Hazardous decomposition products:** Toxic fumes of oxides or sulfur when heated to

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decomposition. Will react with water or steam to produce toxic and corrosive fumes. Reacts with carbonates to generate carbon dioxide gas and with cyanides and sulphides to produce poisonous hydrogen cyanide and hydrogen sulphide.

#### 11. Toxicological information

- **Acute toxicity**
- **Primary irritant effect:**
  - Skin** Causes severe irritation and burns on prolonged contact..
  - Eyes** Caused severe burns. Risk of serious damage to eye.
  - Inhalation** Inhalation of mist or vapor will cause irritation of the upper respiratory tract, high concentrations may cause damage to mucous membranes and lungs.
  - Ingestion** May cause burns to mucous membranes, throat and stomach. May cause severe internal injury.
- **Additional toxicological information:**
  - Acute oral toxicity (LD50): 2140 mg/kg (rat)
  - Acute toxicity of the vapor (LD50): 320 mg/m<sup>3</sup>/2hours (mouse)  
510 mg/m<sup>3</sup>/2hours (rat)
  - (TCL0): 3 mg/m<sup>3</sup>/24w (human)

#### 12. Ecological information

- **General notes:** Harmful effect due to pH shift. Implement necessary measures at the spill and disposal.

#### 13. Disposal consideration

- **Product:** 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.

#### 14. Transport information

- **UN-Number:** 2796 (Sulphuric acid with not more than 51 %)  
1830 (Sulphuric acid with more than 51 %)
- Class:** 8
- PG:** II

#### 15. Regulations

- **Labelling according to Japan guidelines:**
  - Sulphuric acid is indicated as a deleterious substance by Poisonous and Deleterious Substances Control Law in Japan (exempts below concentration 10 % ).
  - This product is exempted from deleterious substances.**

#### 16. 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.