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## MATERIAL SAFETY DATA SHEET

Prod. No. : **V01018401**

Name: **Fathead minnow vitellogenin ELISA-kit**

Hazards identified with this product are those associated with the following components. Refer to the material safety data sheets for the listed items.

**Component name:**

Phosphate buffered saline (PBS) with Tween 20  
TMB peroxidase substrate

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### Multiple component spill or leak procedures

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**Steps to be taken if material is released or spilled**

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.  
Absorb on inert absorbent and place in close containers for disposal.  
Ventilate area and wash spill site after material pickup is complete.

**Waste disposal method**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.  
Observe all federal, state and local environmental regulations.

**Label precautionary statements**

May be harmful by inhalation, ingestion or skin absorption.  
Irritating to eyes, respiratory system and skin.  
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
In case of contact with skin, wash immediately with soap and plenty of water.  
Wear suitable protective clothing, gloves and eye/face protection.  
Do not breathe dust.

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**Other information**

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

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Reason for alteration: Rewiev of MSDS

Changes in Section: None

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## MATERIAL SAFETY DATA SHEET

### Phosphate buffered saline (PBS) with Tween 20

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#### Section 1. Chemical Identification

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Product name: Phosphate buffered saline (PBS) with Tween 20.

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#### Section 2. Composition/ Information on Ingredients

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CAS #: None

Hazardous ingredients

Sodium chloride,	CAS # 7647-14-5
Sodium phosphate, dibasic,	CAS # 7558-79-4
Potassium phosphate, monobasic	CAS # 7778-77-0
Potassium chloride	CAS # 7447-40-7
Tween 20	CAS # 9005-64-5

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#### Section 3. Hazards Identification

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May be harmful by inhalation, ingestion or skin absorption.  
Irritating to eyes, respiratory system and skin.

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#### Section 4. First Aid Measures

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If swallowed, wash out mouth with water, provided person is conscious.  
Call a physician.  
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.  
In case of skin contact, immediately wash skin with soap and copious amounts of water.  
In case of contact with eyes, flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.  
Call a physician.

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## **Section 5. Fire Fighting Measures**

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Extinguishing media:

Non-combustible.

Use extinguishing media appropriate to surrounding fire conditions.

Special fire-fighting procedures:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosions hazards:

Emits toxic fumes under fire conditions.

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## **Section 6. Accidental Release Measures**

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Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Sweep up, place in a bag and hold for waste disposal.

Avoid raising dust.

Ventilate area and wash spill site after material pickup is complete.

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## **Section 7. Handling and Storage**

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Precautions To Be Taken in Handling and Storing:

Avoid contact with eyes, skin, and clothing.

Avoid inhalation.

Avoid ingestion.

Avoid prolonged or repeated exposure.

Wash hands thoroughly after handling.

Keep tightly closed.

Store in a dry place.

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## **Section 8. Exposure controls/Personal protection**

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Ventilation:

Mechanical exhaust required.

Eye Protection:

Safety glasses.

Protective Gloves:

Compatible chemical-resistant gloves.

Other Protective Clothing:

Lab coat

NIOSH/MSHA-approved respirator.

Work/Hygienic/Maintenance Practices:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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## **Section 9. Physical and Chemical Properties**

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Appearance and odour: Solid tablet, odourless.

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## **Section 10. Stability and Reactivity**

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Stability:

Stable.

Incompatibilities:

Strong oxidising agents.

Strong acids.

Hazardous combustion or decomposition products:

Nature of decomposition products not known.

Hazardous polymerization:

Will not occur.

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## **Section 11. Toxicological information**

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Acute effects:

May be harmful by inhalation, ingestion or skin absorption.

Causes eye irritation.

Causes skin irritation.

Material is irritating to mucous membranes and upper respiratory tract.

To the best of our knowledge, the chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

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## **Section 12. Ecological information**

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Data not yet available.

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## **Section 13. Disposal considerations**

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Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state and local environmental regulations.

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## **Section 14. Transport information**

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Contact Biosense Laboratories AS for transportation information.

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## **Section 15. Regulatory information**

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European information

CAUTION: Substance not yet fully tested.

Irritant.

R 36/37/38

Irritating to eyes, respiratory system and skin.

S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36

Wear suitable protective clothing.

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**Section 16. Other information**

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For research use only, not for human or veterinary clinical use.

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## MATERIAL SAFETY DATA SHEET

### TMB peroxidase substrate

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#### Section 1. Chemical Identification

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Product name: TMB peroxidase substrate.

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#### Section 2. Composition/ Information on Ingredients

---

CAS #: None

Hazardous ingredients:

3, 3', 5, 5'-tetramethylbenzidine CAS # 54827-17-7

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#### Section 3. Hazards Identification

---

May be harmful by inhalation, ingestion or skin absorption.  
Contact may cause eye or skin irritation.

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#### Section 4. First Aid Measures

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If swallowed, induce vomiting and consult a physician.  
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.  
In case of skin contact, immediately wash skin with soap and copious amounts of water. Wash contaminated clothing before reuse.  
In case of contact with eyes, flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.  
Consult a physician.

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#### Section 5. Fire Fighting Measures

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Extinguishing media:

Water spray.

Carbon dioxide, dry chemical powder or appropriate foam.

Special fire-fighting procedures:

No special measures required. As in any fire, wear self-contained breathing apparatus and protective clothing.

Unusual fire and explosions hazards:

Emits toxic fumes under fire conditions.

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## **Section 6. Accidental Release Measures**

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Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.  
Absorb on inert absorbent (sand or vermiculite) and place in closed containers for disposal.  
Ventilate area and wash spill site after material pickup is complete.

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## **Section 7. Handling and Storage**

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Precautions To Be Taken in Handling and Storing:

Avoid contact with eyes, skin, and clothing.  
Avoid inhalation of vapours.  
Avoid ingestion.  
Avoid prolonged or repeated exposure.  
Do not reuse this container.  
Wash hands thoroughly after handling.  
Keep tightly closed.  
Store at 2-8°C, protect from light and keep lid closed tightly.

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## **Section 8. Exposure controls/Personal protection**

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Ventilation:

Local exhaust.

Eye Protection:

Safety glasses.

Protective Gloves:

Rubber or vinyl gloves.

Other Protective Clothing:

Lab coat.

Cotton filter mask.

Work/Hygienic/Maintenance Practices:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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## **Section 9. Physical and Chemical Properties**

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Appearance: Clear to light yellow liquid.

Specific gravity: 1.01

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## **Section 10. Stability and Reactivity**

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Stability:

Stable.

Incompatibilities:

Strong oxidising agents, metals.

Hazardous combustion or decomposition products:

Carbon monoxide, carbon dioxide, nitrogen oxides.

Hazardous polymerization:

Will not occur.

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### **Section 11. Toxicological information**

---

Acute effects:

May be harmful by inhalation, ingestion or skin absorption.

Contact may cause skin or eye irritation.

Material may be irritating to mucous membranes and upper respiratory tract.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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### **Section 12. Ecological information**

---

Data not yet available.

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### **Section 13. Disposal considerations**

---

Normal disposal with copious amounts of water.

Observe all federal, state and local environmental regulations.

---

### **Section 14. Transport information**

---

Contact Biosense Laboratories AS for transportation information.

---

### **Section 15. Regulatory information**

---

CAUTION: Substance not yet fully tested.

---

### **Section 16. Other information**

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For research use only, not for human or veterinary clinical use.

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