



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

Product Name: Alpha-Fetoprotein (AFP) ELISA

Catalog No: IB19102

Supplier: Immuno-Biological Laboratories, Inc. (IBL-America)

Telephone No. in Case of Emergency: In the event of a medical emergency, please dial 911.

2. COMPOSITION of the kit COMPONENTS

Components	Identification	Quantity	Main Ingredients
1. Microwell Strips	Microwell coated with Murine Monoclonal AFP	1	Affinity Purified Monoclonal Antibody
2. AFP Standard	AFP Standard Set	6 vials (0.5mL) Ready to use	AFP in human serum based buffer
3. AFP Enzyme Conjugate	Peroxidase (Enzyme) labeled AFP Antibody	1 bottle (12mL) (ready to use)	AffiniPure Anti AFP & HRP, in Conjugate stabilizer buffer
4. TMB Substrate	TMB Substrate	1 bottle (12 mL) (ready to use)	3,3',5,5'-Tetramethylbenzidine and Hydrogen peroxide
5. Stop Solution	Stop Solution	1 bottle (12 mL) (ready to use)	1N H ₂ SO ₄
6. Wash Concentrate	Wash Concentrate	1 bottle (25 mL) (20X concentrate)	Saline with surfactant
7. Package Insert	Package Insert	1	N/A

3. HAZARDS IDENTIFICATION

3.1. Potential Biohazard:

The Standard set is formulated with human based serum. The human serums are tested by a United States Food and Drug Administration (USFDA) licensed method and found to be non-reactive for HIV-1, HIV-2, Hepatitis B surface antigen and HCV. Because no test method can offer absolute assurance that these agents are absent, reagents should be handled at the Biosafety Level 2, as recommended for any potentially infectious human blood product, in the United States Center for Disease Control (USCDC) and National Institute of Health (USNIH) manual "Biosafety in Microbiological Laboratories", 1988.

3.2. Chemical Hazard:

- The Substrate, containing TMB and other ingredient, may cause eye, skin, and respiratory tract irritation. No component of this product presents at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP, IARC, or OSHA.
- Teratogenic effects: Not available for humans.
- Stop Solution is an acidic and corrosive agent. Avoid contact with skin.

4. FIRST AID

- 4.1. **Skin Contact:** Remove contaminated clothing and wash the exposed skin area thoroughly with soap and water.
- 4.2. **Eye Contact:** Flush with copious amounts of water for at least 15 minutes. Seek medical attention.
- 4.3. **Inhalation:** Remove to fresh air, give oxygen if breathing becomes difficult and seek medical attention.
- 4.4. **Ingestion:** Flush mouth with copious amounts of water, provided that the person is conscious and seek medical attention.

5. MEASURES IN CASE OF FIRE

- 5.1. **Suitable Extinguishing Media:** Chemical or water fire extinguisher.
- 5.2. **Extinguishing Media Not to be Used:** None known.
- 5.3. **Special Fire Fighting Procedures:** None Known.
- 5.4. **Unusual Fire and Explosion Hazards:** N/A
- 5.5. **NFPA Rating:** Health: 2, Flammability: 0, Reactivity: 1

6. MEASURES IN CASE OF ACCIDENTAL SPILL

- 6.1. **Body Precautions:** Wear rubber gloves, impermeable shoe covers and long laboratory coat.
- 6.2. **Environmental Precautions:** Contain the spill to the smallest area possible.
- 6.3. **Cleaning Measures:** Take care not to contaminate body. Absorb the material with disposable towels. Soak area with a 10% bleach solution and wipe up with disposable towels. Dispose of all contaminated trash in accordance with local regulations.

7. MANIPULATION AND STORAGE

- 7.1. **Manipulation:** Wear suitable personal protective equipment. Take care not to splash spill or splatter reagents. Do not eat, drink, smoke or apply cosmetics in laboratory areas. Do not pipette samples or reagents by mouth.
- 7.2. **Storage:** Store the test kits in 2 - 8° C refrigerators designated and labeled to contain human blood products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. **Body Protection:** Wear long laboratory coat.
- 8.2. **Respiratory protection:** In case of fire, wear self-contained breathing apparatus.
- 8.3. **Hand Protection:** Wear non-permeable rubber, neoprene, latex or nitrile disposable gloves. Change gloves when they become contaminated.
- 8.4. **Eyes Protection:** Wear safety glasses or goggles when a splash hazard exists.

- 9. **ECOLOGICAL EFFECTS** None known.

10. DISPOSAL REQUIREMENTS

- 10.1. **Disposal of Preparation Left:** Dispose according to current regional and national rules.
- 10.2. **Contaminated Containers:** Dispose of following current regulations.

- 11. **TRANSPORTATION INFORMATION** (Due to the sulfuric acid preparation in the kit):

- 11.1. **Road / Railway Haulage ADR/RID:** Class 8, Corrosive, limited quantity of material, excepted package.
- 11.2. **Sea Freight IMO (IMDG):** Class 8, Corrosive, limited quantity of material, excepted package.
- 11.3. **Air Freight IATA (ICAO):** Class 8, Corrosive, limited quantity of material, excepted package.
- 11.4. **UN Number:** 2796

12. INFORMATION ON REGULATION

- 12.1. **Classification:** This preparation is classified and labeled in accordance with applicable national and international regulations.
- 12.2. **Symbols of Danger:** N/A
- 12.3. **"R" Phrases Indicating Specific Risks: Irritant**
R36/37/38, Irritating to the eyes, respiratory system and skin.
- 12.4. **"S" Phrases Indicating Caution:**

S26, In case of contact with any reagents rinse with copious amounts of water for at least 15 minutes. If irritation persists, seek medical attention.

S36, Wear suitable protective clothing.

13. OTHER INFORMATION

Recommended Use: For research or clinical investigational use only.
Not for use on or in human and animals.

Information contained in this MSDS relies upon our best knowledge of the product upon issue of this document to describe the use, storage, transport and disposal under safe and secure measures. Such information is not a guarantee of the characteristics and specific quality of the product. This MSDS concerns the stated preparation and cannot apply to the product if used with other materials or in a process other than those specifically stated.

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