

# Material Safety Data Sheet

## 1. Product and Company Identification

**Trade name:** AflaREAD fast  
**P/N:** 11853  
**Product is used for:** Sample cleanup / mycotoxin analysis

## Product Components / Product Component Description:

|                          |  |
|--------------------------|--|
| Aflatoxin ELISA Plate    | Aflatoxin coated ELISA plate   |
| Standard solution 1      | methanol / water   |
| Standard solution 2      | Aflatoxin 0.2 ng/mL in methanol / water                                      |
| Standard solution 3      | Aflatoxin 0.5 ng/mL in methanol / water                                      |
| Standard solution 4      | Aflatoxin 1 ng/mL in methanol / water  |
| Standard solution 5      | Aflatoxin 2 ng/mL in methanol / water  |
| Standard solution 6      | Aflatoxin 5 ng/mL in methanol / water  |
| Standard solution 7      | Aflatoxin 10 ng/mL in methanol / water                                       |
| Detection solution       | Solution containing a monoclonal antibody and peroxidase conjugated antibody |
| Sample dilution buffer   | Phosphate buffered saline  |
| Washing solution         | Phosphate buffered saline containing mild detergent                          |
| Color substrate solution | Solution containing TMB  |
| Stopping solution        | 1M sulphuric acid  |

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## 2. Composition

| Product Components       | Ingredient(s)  | Concentration(s)  | CAS Number(s)           |
|--------------------------|--|-------------------|-------------------------|
| Coated ELISA Plate       | N/A  | N/A               | N/A                     |
| Standard solution 1      | Methanol   | ≥ 70%             | 67-56-1                 |
| Standard solution 2      | Methanol<br>Aflatoxin B <sub>1</sub>                     | ≥ 70%<br>< 0.001% | 67-56-1<br>1162-65-8    |
| Standard solution 3      | Methanol<br>Aflatoxin B <sub>1</sub>                     | ≥ 70%<br>< 0.001% | 67-56-1<br>1162-65-8    |
| Standard solution 4      | Methanol<br>Aflatoxin B <sub>1</sub>                     | ≥ 70%<br>< 0.001% | 67-56-1<br>1162-65-8    |
| Standard solution 5      | Methanol<br>Aflatoxin B <sub>1</sub>                     | ≥ 70%<br>< 0.001% | 67-56-1<br>1162-65-8    |
| Standard solution 6      | Methanol<br>Aflatoxin B <sub>1</sub>                     | ≥ 70%<br>< 0.001% | 67-56-1<br>1162-65-8    |
| Standard solution 7      | Methanol<br>Aflatoxin B <sub>1</sub>                     | ≥ 70%<br>< 0.001% | 67-56-1<br>1162-65-8    |
| Detection solution       | Monoclonal antibody<br>Peroxidase<br>conjugated antibody | N/A<br>N/A        | N/A<br>N/A              |
| Washing solution         | Phosphate buffered<br>saline<br>Tween20                  | N/A<br><br><0.1 % | N/A<br>9005-64-5        |
| Color substrate solution | Hydrogen Peroxide,<br>30% TMB                            | < 0.1%<br>< 0.1%  | 7722-84-1<br>54827-17-7 |
| Sample dilution buffer   | Phosphate buffered<br>saline                             | N/A               | N/A                     |
| Stopping solution        | Sulphuric acid   | 1 M               | 7664-93-9               |

### 3. Hazards Identification

#### **Aflatoxin B<sub>1</sub>**

is highly toxic. May cause cancer. May cause heritable genetic damage.  
Possible teratogen. May be harmful if inhaled, ingested or absorbed by skin.

#### **Hydrogen Peroxide**

is an oxidizer, corrosive, and combustible. Avoid contact with eyes. May be harmful if inhaled, ingested or adsorbed by skin.

#### **Methanol**

is flammable and toxic. May be harmful if inhaled, ingested or absorbed by skin.  
Keep away from sources of ignition.

#### **Sulphuric Acid**

is corrosive. May be harmful if inhaled, ingested or absorbed by skin.

#### **TMB (Tetramethylbenzidine)**

is harmful. Possible mutagen. May be harmful if inhaled, ingested or absorbed by skin.

### 4. First Aid Measures

**Skin Contact:** Wash thoroughly with copious amounts of water. Remove contaminated clothing and shoes.

**Eye Contact:** Flush with copious amounts of water for at least 15 minutes.  
Call a physician.

**Ingestion:** Flush mouth if person is conscious. Call a physician.

**Inhalation:** Remove to fresh air. If breathing is difficult, call a physician.

### 5. Fire Fighting Measures

Use appropriate extinguishing media (CO<sub>2</sub>, Dry Chemical, Foam or ABC) for fire.

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

### 6. Accidental Release Measures

Wear appropriate protective equipment. Contain and clean spill with appropriate absorbent material. Dispose of material per local and national laws.

## 7. Handling and Storage

Handling: Do not eat, drink, smoke, or apply cosmetics in laboratory areas. Do not mouth pipette components by mouth contact. Wash hands as soon as possible after handling components or samples.

Storage: Store all components as directed in the package insert.

## 8. Exposure Controls, Personnel Protection

Wear appropriate laboratory protective equipment when working with components or samples, including laboratory coat, disposable gloves and eye protection. Avoid skin and mouth contact. Wash hands as soon as possible after handling components or samples.

## 9. Physical and Chemical Properties

Physical data is not available.

## 10. Stability and Reactivity

The components are stable at the temperatures indicated in the package insert. Avoid handling Standards around open flame or ignition source.

## 11. Toxicological Information

Toxicological data is not available.

## 12. Ecological Information

Ecological information is not available.

## 13. Disposal Considerations

Dispose of according to local and national laws.

## 14. 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. LCTech GmbH shall not be held liable for any damage resulting from handling or from contact with the kits or components.