

Material Safety Data Sheet

1. Product and Company Identification

Trade name: AflaREAD™
P/N: 11139
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 I	Solution containing a monoclonal antibody
Conjugate solution	Solution containing secondary peroxidise 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 Aflatoxin B ₁	≥ 70% < 0.001%	67-56-1 1162-65-8
Standard solution 3	Methanol Aflatoxin B ₁	≥ 70% < 0.001%	67-56-1 1162-65-8
Standard solution 4	Methanol Aflatoxin B ₁	≥ 70% < 0.001%	67-56-1 1162-65-8
Standard solution 5	Methanol Aflatoxin B ₁	≥ 70% < 0.001%	67-56-1 1162-65-8
Standard solution 6	Methanol Aflatoxin B ₁	≥ 70% < 0.001%	67-56-1 1162-65-8
Standard solution 7	Methanol Aflatoxin B ₁	≥ 70% < 0.001%	67-56-1 1162-65-8
Detection solution I	Monoclonal antibody	N/A	N/A
Conjugate solution	Peroxidase conjugated antibody	N/A	N/A
Washing solution	Phosphate buffered saline Tween20	N/A <0.1 %	N/A 9005-64-5
Color substrate solution	Hydrogen Peroxide, 30% TMB	< 0.1% < 0.1%	7722-84-1 54827-17-7
Sample dilution buffer	Phosphate buffered saline	N/A	N/A
Stopping solution	Sulphuric acid	1 M	7664-93-9

3. Hazards Identification

Aflatoxin B₁

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 (CO₂, 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.