QuickTox™ Kit for Aflatoxin Free Bulk Grain

Catalog Number AS 201 BG *Part #12713*

Highlights:

- *Negative results in 2-3 minutes*
- *Positive results in only 4 minutes*
- *Simple protocol*

Contents of Kit:

- *50 QuickTox Strips packed in a moisture-resistant canister*
- *50 EB17 dissolvable pouches (1 pkt per 25g sample)*
- *DB2 Buffer*
- *100 pipette tips*
- *50 reaction vials*

Items Not Provided:

- *Orbital/rotary shaker*
- *Plastic sample cups w/lids**
- *100 µL fixed-volume pipette* (or adjustable pipette)*
- *20 mesh screen*
- *Graduated cylinder**
- *Approved coffee filter**
- *Distilled, deionized or bottled water*
- *Timer*

**Available as accessories – see list on Page 3*

Correct 20 mesh grind for corn

Add EB17 pouch, then water – shake immediately to dissolve pouch

Intended Use

This EnviroLogix QuickTox Kit for Aflatoxin Free is designed to quickly extract and screen corn for the presence of total aflatoxins utilizing a water-based extraction. The QuickTox Kit is designed to provide a qualitative screen for aflatoxin residues at a 20 ppb cut off level in corn grain.

How the Test Works

A composite sample is first collected, ground, and extracted to solubilize any aflatoxin present. The extract is further diluted into Buffer before being run on the QuickTox test strip.

Each QuickTox Strip has an absorbent pad at each end. The protective tape with the arrow indicates which end of the strip to insert into the reaction vial. The sample extract travels up the membrane strip and is absorbed into the larger pad at the top of the strip. The portion of the strip between the protective tape and the absorbent pad at the top of the strip is used to view the reactions as described under "Interpreting the Results."

Preparation of the Sample

Step 1: Determine Number and Size of Sub-samples

1. Collect a composite corn sample according to your own sampling plan or USDA/ GIPSA guidelines. Consult USDA/GIPSA reference documents such as www.gipsa.usda.gov/fgis/handbook/BK1/BookI_2015-09-18.pdf to help design a plan that fits your needs.
2. Grind samples using a mill or grinder which provides a sample such that ≥95% passes through a 20 mesh sieve. Mix ground material thoroughly before sub-sampling.

Step 2: Extract corn sample

Important: Ensure that all samples, water, buffer, and test strips are at room temperature before use

1. Weigh a 25-gram sub-sample† into a disposable sample cup with lid.
2. Add one pouch of EB17.
3. Measure carefully and add 75 mL of water‡. Cap tightly and shake immediately for 10 seconds to dissolve the pouch, then for one minute on a mechanical shaker operated at the highest speed. Alternately, samples may be shaken vigorously by hand for 2 minutes.

   † If testing 50-gram samples, add two EB17 Buffer pouches and 150 mL water (50g Sample Set contains additional Buffer pouches and large extraction cups, order Catalog No. ACC-099).

   ‡ Use distilled, deionized, or flat (non-carbonated) bottled water.
4. Pour sample through an approved coffee filter (ACC-083) into a clean vessel. Once enough extract has passed through (no longer than 2 minutes), move filter aside to access the extract.

Shake mechanically or by hand

Filter extract

Add Buffer to vial first, then add extract; mix well

Place strip in vial

Step 3: Dilute corn extract with DB2 Buffer

1. Using a 100 µL fixed pipette and a new tip, transfer 100 µL of DB2 Buffer into the reaction vial.
2. Discard tip, and using a new tip, add 100 µL of filtered extract to reaction vial.
3. Mix buffer and sample extract thoroughly by pipetting up and down a few times to homogenize well.

How to Run the QuickTox Strip Test

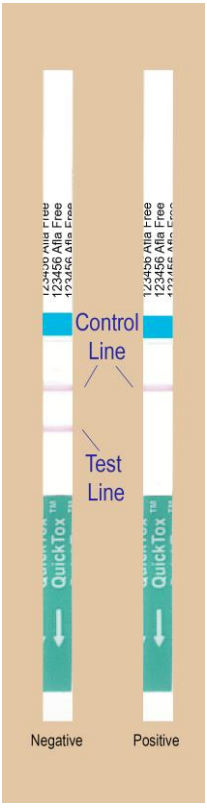
1. Allow refrigerated canisters to come to room temperature before opening. Remove the QuickTox Strips to be used. Avoid bending the strips. Reseal the canister immediately.
2. Place the strip into the reaction vial containing the diluted sample extract. The arrow tape on the end of the strip should point into the reaction vial.
3. The sample extract will travel up the strip (flow may not be visible immediately—this is expected and normal).
4. Allow the strip to develop for 4 minutes before making final assay interpretations. Negative sample results may become obvious much more quickly (2-3 minutes).
5. To retain the strip, cut off and discard the bottom section of the strip covered by the arrow tape.

Interpreting the Results

Development of a Control Line within 4 minutes indicates that the strip has functioned properly. Any strip that does not develop a Control Line should be discarded. A second preparation of the extract (using a fresh 1:2 dilution) should be made and tested using another strip.

Negative Results – A sample containing aflatoxin residues of less than 10 ppb will develop **2 distinct lines** in the test area. A negative test result can be interpreted as soon as a Test Line develops, generally within 2-3 minutes.

Positive Results – The QuickTox Kit for Aflatoxin Free is designed to screen for aflatoxin at levels of approximately 20 ppb or higher in corn grain. A sample containing aflatoxin residues of 20 ppb or higher will develop **1 distinct line**, the Control Line. **The absence of a Test Line should be interpreted as positive for aflatoxin residues**. Allow the strip to develop for the full 4 minutes before concluding that the sample has tested positive for aflatoxin. Some samples containing slightly less than 20 ppb may also provide a positive result. You may wish to confirm positive results with a quantitative method to determine the precise level of contamination.



Kit Storage

This QuickTox Kit should be stored refrigerated. Note the shelf life on the kit box. The kit may be used in field applications; however, prolonged exposure to high temperatures may adversely affect the test results. Do not open the desiccated canister until ready to use the strips.

Available Accessories:

- *Graduated cylinder (100mL)* *ACC-068*
- *MiniPet 100 µL (one/location free)* *ACC-041*
- *5 oz Sample cups/lids Case of 500; for extracting samples up to 30g* *20-0047*
- *Coffee filters (100)* *ACC-083*
- *50g Sample Extr.Set Additional EB17 dissolvable pouches and sample cups (enough for 100 tests)* *ACC-099*

Cross-reactivity

The following mycotoxins have been tested with this kit using the protocols specified herein with no false positive results.

- DON (deoxynivalenol)
- Fumonisin B_1
- Ochratoxin A
- T-2/HT-2
- Zearalenone

Precautions and Notes

SAFETY

- **Disposal of aflatoxin-contaminated materials.**
  - Follow your facility's safety procedures for disposal of samples and extracts potentially containing or known to contain aflatoxin.
- **EB17 Dissolvable Pouches contain powder that is flammable and an irritant**. See attached Safety Data Sheet.
  - If the pouches are damaged, avoid inhaling powder or contact with the skin, eyes, or clothing. Wear personal protective equipment including safety glasses, gloves, mask and lab coat when handling. Keep powder away from heat, sparks and open flame.
  - Observe any applicable regulations when disposing of extracted samples and kit reagents.
  - Do not treat either the EB17 extracts or the EB17 extraction labware with bleach; the Extraction Pouch powder is incompatible with strong oxidizers.

GENERAL

- This kit is designed to screen for presence or absence only, and is not designed to be quantitative.
- This product is currently not applicable for use in testing any other crops.
- As with all screening tests, it is recommended that results be confirmed by an alternate method when necessary.
- The assay has been optimized for use with the protocol provided in the kit. Deviation from this protocol may invalidate the results of the test.
- The results generated through the proper use of this diagnostic tool reflect the condition of the working sample directly tested. Extrapolation as to the condition of the originating lot, from which the working sample was derived, should be based on sound sampling procedures and statistical calculations which address random sampling effects, non-random seed lot sampling effects and assay system uncertainty. A negative result obtained when properly testing the working sample does not necessarily mean the originating lot is entirely negative for the analyte or protein in question.
- A negative result may safely be interpreted in as little as 2-3 minutes after beginning the test. It is not safe, however, to interpret positive results prior to 4 minutes.
- Protect all components from hot or cold extremes of temperature when not in use. Do not leave in direct sunlight or in vehicle.

LIMITED WARRANTY

EnviroLogix Inc. ("EnviroLogix") warrants the products sold hereunder ("the Products") against defects in materials and workmanship when used in accordance with the applicable instructions for a period not to extend beyond a product's printed expiration date. If the Products do not conform to this Limited Warranty and the customer notifies EnviroLogix in writing of such defects during the warranty period, including an offer by the customer to return the Products to EnviroLogix for evaluation, EnviroLogix will repair or replace, at its option, any product or part thereof that proves defective in materials or workmanship within the warranty period.

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License

EnviroLogix has developed this kit using proprietary reagents.

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ENVIROLOGIX

Safety Data Sheet

According to OSHA 29CFR 1910.1200

SECTION 1 . Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Trade name: Extraction Buffer
Part number: EB17/711198, 12382)

1.2 Relevant identified uses of the substance or mixture and uses advised against
Extraction buffer used with the Aflatoxin FREE test kit (P/N 11178; AQ-209 BG), and with the Aflatoxin Flex kit (P/N 12376; AQ-309). Not to be used for purposes other than those specified in product literature.

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier: EnviroLogix Inc., 500 Riverside Industrial Pkwy. Portland ME 04103, USA
Information department: Technical Service
1.4 Emergency telephone number: (207) 797-0300

SECTION 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to OSHA 29CFR 1910.1200 and Regulation EC 1272/2008 (CLP):

Flammable Solid category 2	H228	Flammable solid.
Acute Toxicity Oral 4	H302	Harmful if swallowed.
Acute Toxicity Inhalation 4	H332	Harmful if inhaled
Skin Irritation category 2	H315	Causes skin irritation
Serious eye damage category 1	H318	Causes serious eye damage
Specific Target Organ Toxicity Single Exposure category 3	H335	May cause respiratory irritation
Aquatic Toxicity-Chronic category 3	H412	Harmful to the environment with long lasting effects

2.2 Label elements
Labeling according to OSHA 29CFR 1910.1200 and Regulation (EC) 1272/2008

Hazard pictograms :

Signal word: ..... Danger

Hazard statements: .....

H228	Flammable solid.
H302 + H332	Harmful if swallowed or inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements: .....

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
P304 + P340	IF INHALED: Remove to fresh air and keep comfortable for breathing.
P305 + P351 + P338	If in Eyes: Rinse cautiously with water for several minutes, remove contact lenses if present and easy to do. Continue rinsing.
P403 + P233	Store in a well ventilated place. Keep container tightly closed

2.3 Other hazards No additional hazards listed

SECTION 3. Composition/information on ingredients

3.1 Substances: Information not relevant

3.2 Mixtures **Extraction Reagent Powder (EB17)**

Chemical name	CAS No	EC No	Amount (%)	Classification OSHA 29CFR1910.1200
Sodium Lauryl Sulfate	151-21-3	205-788-1	80 to 85	Flam. Sol. 2 H228; Acute Tox. Oral 4 H302; Acute Tox. Inhal. 4 H332; Skin Irrit. 2 H315; Eye Dam. 1 H318; STOT SE 3 Resp. H335; Aquatic Tox. Chronic 3 H412;
Benzenesulfonic Acid, 4 C10 –C13 sec-Alkyl Derivatives	85536-14-7	287-494-3	1.5 to 2	Acute Tox. 4 H302; Skin Corr. 1C H314; Aquatic Tox. Chronic 3 H 412

The full text of hazard (H) statements is shown in section 16

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation ..... If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

After skin contact ..... Flush skin with water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse.

After eye contact ..... Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.

After swallowing ..... Do NOT induce vomiting unless directed to do so by medical personnel. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed Difficulty breathing, Skin irritation, Eye irritation
Do NOT induce vomiting unless directed to do so by medical personnel. If large quantities of this material are swallowed, call a physician immediately.

4.3 Indication of any immediate medical attention and special treatment needed. No special treatment is required

SECTION 5. Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

5.2 Special hazards arising from the substance or mixture : When heated to decomposition it emits toxic fumes of sulfur oxides, and sodium oxide.

5.3 Advice for firefighters
Protective equipment: Wear appropriate PPE for fire conditions including self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Assure adequate ventilation. Remove all sources of ignition. Evacuate personnel to a safe area. Avoid breathing dust.

6.2 Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and material for containment and clean up: Sweep up and shovel. Prevent entry into sewers, dike if needed. Eliminate all ignition sources. Call for assistance on disposal.
Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

6.4 Reference to other sections: For safe handling refer to Section 7. For information on PPE refer to Section 8. For disposal, refer to Section 13.

SECTION 7. Handling and Storage

7.1 Precautions for safe handling: Keep away from heat. Keep away from sources of ignition. Prevent electrostatic build-up. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities: Keep away from incompatibles such as oxidizing agents.
Keep container tightly closed. Keep container in a cool, well-ventilated area.

7.3 Specific end use(s): Besides the uses described in Section 1.2 there are no other specific uses.

SECTION 8. Exposure Controls/ Personal Protection

8.1 Exposure controls
Additional information about design of technical systems: None required

Exposure limits
Components with limit values that require monitoring at the workplace.

Chemical	Exposure Limits
Sodium Lauryl Sulfate	**OSHA** Observe limits for particulate not otherwise regulated: 15 mg/m3 total dust, 5 mg/m³ respirable fraction (OSHA PEL) 10 mg/ m³ inhalable particulate, 3 mg/m³ respirable particulate. (ACGIH TLV)
	EH40/2005 Inhalable dust: 10mg/m³; Respirable dust: 4mg/m³

Exposure controls - Engineering Controls:

Personal protective equipment
Facilities using or storing this material should be equipped with an eyewash and safety shower. Provide local exhaust or general dilution ventilation.

Breathing equipment..... Appropriate respiratory protection should be determined according to local conditions using risk analysis protocols. An approved disposable air-purifying particulate respirator may be used as a backup to engineering controls. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protection of hands..... Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection..... Safety glasses with side shields, goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Eye and face protection regulations are described by OSHA (1.8) in 29 CFR 1910.133. Do not wear contact lenses when working with chemicals.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties **Extraction Reagent Powder (EB17)– no CAS number**

Appearance:	Solid Powder, White
Odor:	Odorless
Odor threshold:	not applicable
pH :	9.5 (1% sol/water)
Melting point/freezing point:	
Initial boiling point and boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability(solid, gas):	May be combustible at high temperature
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility(ies):	Soluble in water
Partition coefficient: n-octanol/water:	No data available
Auto-ignition Temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing Properties	not applicable

9.2 Other information
Products of Combustion: Carbon oxides (CO, CO2), sulfur oxides (SO2, SO3...).
Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat.
Risks of explosion of the product in presence of mechanical impact: Not available.

SECTION 10. Stability and reactivity

10.1 Reactivity Not self-reactive.
10.2 Chemical stability Stable under normal temperatures and pressures
10.3 Possibility of hazardous reactions : Reaction with strong oxidizers may cause fire.
10.4 Conditions to avoid : Heat, flames, and sparks
10.5 Incompatible materials: Oxidizing agents (eg bleach).
10.6 Hazardous decomposition products: Carbon monoxide, carbon dioxide, sulfur oxides, carbon dioxide, nitrogen oxides, silicone Oxides.

SECTION 11. Toxicological information

Acute effects (toxicity tests):

Sodium lauryl sulfate - 151-21-3		
Acute oral toxicity	LD50= 1200 mg/kg	rat
Acute dermal toxicity	LD50= > 2000 mg/kg	rabbit
Acute inhalation toxicity	LC50= 3900 mg/m3, 1hour	rat

Sensitization: No sensitizing effects known
Additional toxicological information: CMR (carcinogenicity, mutagenicity and toxicity for reproduction) – no CMR effects.

SECTION 12. Ecological information

12.1 Toxicity: Sodium Lauryl Sulfate
Aquatic toxicity: Note: Aquatic Toxicity of mixture is based on Sodium Lauryl Sulfate.

Aquatic toxicity LC50	Effect dose	Exposure	Species
Acute fish toxicity	10.2-27.8 mg/l	96 hours	Pimephales promelas
Acute daphnia toxicity	1.8 mg/l	48 hours	daphnia magna
Acute algae toxicity	117 mg/l	96 hours	Pseudokirchneriella subcapitata
	53 mg/l	96 hours	Desmodesmus subspicatus
	30-100 mg/l	96 hours	Desmodesmus subspicatus

12.2 Persistence and degradability : Biodegradability Result: 90 % - Readily biodegradable. Ratio BOD/ThBOD 95.9 %

12.3 Bio accumulative potential : Cyprinus carpio (Carp) - 72 h Bioconcentration factor (BCF): 3.9 - 5.3
12.4 Mobility in soil : Not available
12.5 Results of PBT and vPvB assessment: Not available as a chemical safety assessment, not required/not conducted.
12.6 Other adverse effects No others listed.

SECTION 13. Disposal considerations

Waste treatment methods/ Uncleaned packaging: Dispose of contents and containers in accordance with local, state and federal regulations.

SECTION 14. Transport information

14.1 UN-Number DOT, ADR, ADN, IMDG, IATA :	UN2926
14.2 UN proper shipping name DOT, ADR, ADN, IMDG, IATA :	FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S. (Sodium dodecyl sulfate)
14.3 Transport hazard class(es)	
Class (DOT, ADR, ADN, IMDG, IATA):	4.1 (6.1)
14.4Packing group (DOT, ADR, IMDG, IATA):	PGIII
14.5 Environmental hazards	
Marine pollutant:	Not applicable.
14.6 Special precautions for user :	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations	**NFPA Rating (US) ……** Health hazard: 2 , Fire: 1 , Reactivity Hazard: 0
HMIS Classification (US)…… Health hazard: 2 , Flammability: 1 , Physical Hazards: 0	TSCA 8(b) inventory: Sodium lauryl sulfate
US Federal Regulations	
TSCA	Listed.
Health and Safety Reporting List	Not listed
CERCLA	Not listed
SARA Section 302 (Extremely Hazardous Substances)	Not listed
Clean Air Act	Not listed
Clean Water Act	
OSHA	
European/International Regulations	
European labeling in accordance with EC Directives	This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 205-788-1).
Canada – DSL/NDSL	Listed
Canada – WHMIS	CLASS D-2B: Material causing other toxic effects (TOXIC).
Other	China: Listed on National Inventory. Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippines: Listed on National Inventory (PICCS). Australia: Listed on AICS.
15.2 Chemical safety assessment	Not carried out.

SECTION 16. Other information

This information is true based on our present knowledge. However, EnviroLogix makes no representation of its accuracy or completeness. Persons receiving this information must exercise their independent judgment in determining the product's safety and suitability for its intended use. This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship
EHS Department
EnviroLogix Inc.

Code Definitions:

H228	Flammable solid.
H302 + H322	Harmful if swallowed or inhaled
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
P304 + P340	IF INHALED: Remove to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do. Continue rinsing.
P403 + P233	Store in a well ventilated place. Keep container tightly closed

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