



RESILIENT GRAIN MARKETS: **UNLOCKING AFRICA'S FOOD SECURITY POTENTIAL**

2ND-4TH, OCTOBER 2025 | ZANZIBAR, TANZANIA

Main Session 3

Grain quality and food safety.

Harmonizing standards and combating aflatoxins for competitive trade

**Session
Sponsors:**



**Ben
Zhong**

**Africa Regional Sales
Manager**

Shenzhen Bioeasy
Biotechnology Co. Ltd.



RESILIENT GRAIN MARKETS: UNLOCKING
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Affordable, rapid testing kits for food safety

BIOEASY

Bioeasy - Mycotoxin Test Portfolio



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Comparison of Detection Methods



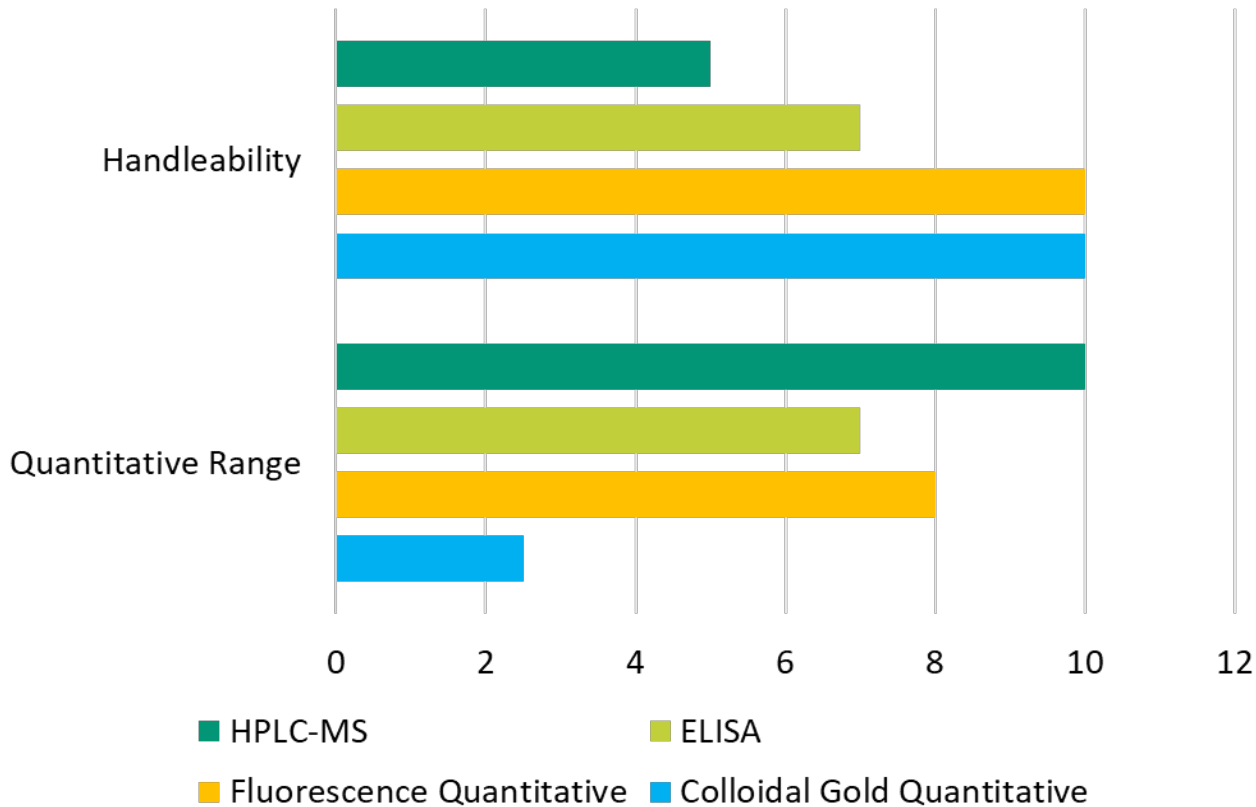
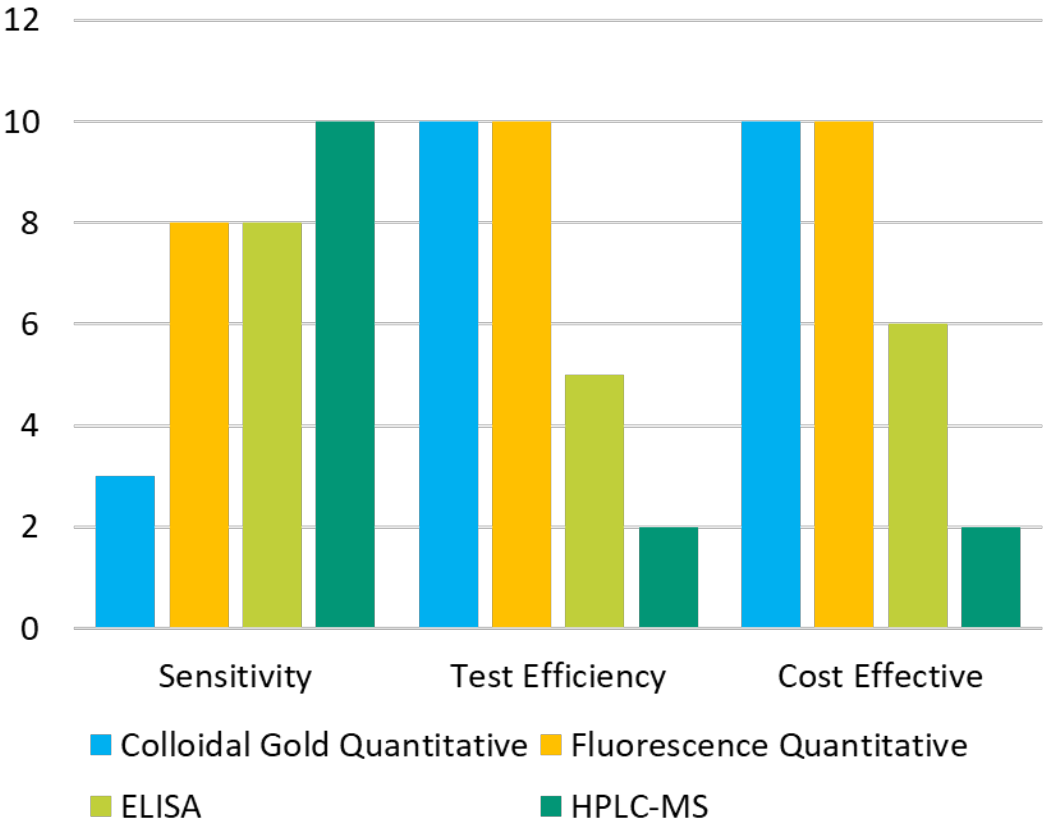
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Test Method	Attribute	Requirement on Operators	Test Speed	Accuracy	Contact with Chemicals?
By instrument: HPLC/LC-MS	Quanti.	High	Slow (>4hr)	Golden Rule	Yes
ELISA	Quanti.	High	Medium (30-60min)	High	Yes
Immuno- chromatography	Quanti./ Quali.	Low	Rapid (5-15min)	High	No

Comparison of Detection Methods



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Fluorescence Quantitative Rapid Test Kits



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◀ **Star Product** ▶



10 mins incubation

No.	Art. No.	Product name	Linear range	Test Method
1	YRF5001K	Aflatoxin B1 (AFB1) Fluorescence Quantitative Rapid Test for Grains and their by-products, Compound Feed, Nuts, and Vegetable oils	1-50ppb	One step, 10 min
2	YRF5002K	Deoxynivalenol (DON) Fluorescence Quantitative Rapid Test for Grains and their by-products, Compound Feed, Nuts	50-5000ppb	One step, 10 min
3	YRF5003K	Zearalenone (ZEN) Fluorescence Quantitative Rapid Test for Grains and their by-products, compound feed, nuts, and corn oil	10-1000ppb	One step, 10 min
4	YRF5004K	Ochratoxin A(OTA) Fluorescence Quantitative Rapid Test for Grains and their by-products, Compound Feed, Nuts	2.5-50ppb	One step, 10 min
5	YRF5005K	T-2 Toxin Fluorescence Quantitative Rapid Test for Grains and their by-products, Compound Feed, Nuts	10-1000ppb	One step, 10 min
6	YRF5006K	Fumonisin (FUM) Fluorescence Quantitative Rapid Test Kit for Grains and their by-products, Compound Feed, Nuts	100-10000 ppb	One step, 10 min
7	YRF5007K	Total Aflatoxin (AFT) Fluorescence Quantitative Rapid Test Kit for Grains and their by-products, Compound Feed, Nuts, and Vegetable Oils	1-50 ppb	One step, 10 min

Fluorescence Test Instruments, Procedures



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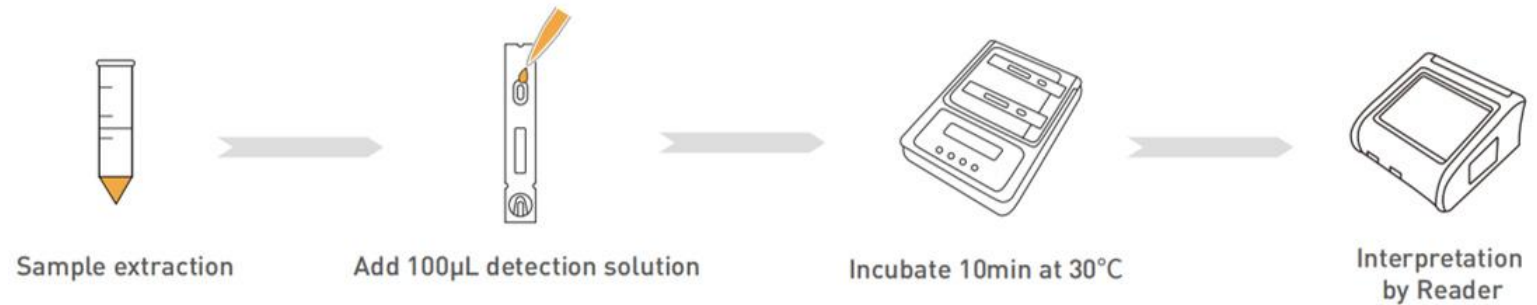


**EASY-2T Portable
Incubator**



EASY-11 Analyzer

- One-Step Detection: simple pretreatment.
- Unified Pretreatment: one extraction allows detection of all toxin items.
- Scan QR Code: contains reagent information
- ID Chips: automatically retrieves the corresponding curve.
- Convenient Storage: room temperature storage, no refrigeration required.



Lesson Learn from Dairy Sector



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Test Items in Milk for Quality Control and Food Safety

- Antibiotics in Milk
- Adulteration in Milk
- **Aflatoxin M1 in Milk**
- Pesticides in Milk
- Heavy metal in Milk

Advantages



Quantitative



Rapid
Result in 10 min



Sensitive



User friendly
Easily performed on
site or in lab

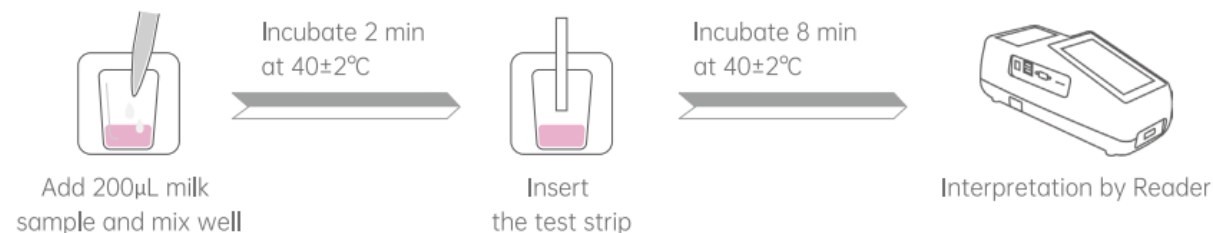


Cost-effective



Accurate and
reliable

Test Procedure



(Test procedure of YRM1004D-2)

Specification

Shelf life: 18 months Storage: 2-8°C

Art. No.	Products	Linear range	Spec.	Test method
YRM1004D-1	Aflatoxin M1 Quantitative Rapid Test for Milk	150-600 ppt	96T	2+8 min 40±2°C
YRM1004D-2	Aflatoxin M1 Quantitative Rapid Test for Milk	15-150 ppt	96T	2+8 min 40±2°C
YRM1004D-4	Aflatoxin M1 Quantitative Rapid Test for Milk	100-1000 ppt	96T	2+8 min 40±2°C

Tips: Please remember to insert the ID chip for each test kit in order to import the quantitative curve into the Reader.

Questions and Actions



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- Rapid testing kits are vital for early detection of aflatoxins and contaminants. How can these be integrated into standards and enforcement mechanisms across Africa?
- How do we ensure affordability and accessibility of these technologies for smallholder farmers and SMEs?
- What role do public–private partnerships play in scaling rapid testing adoption?

THANK YOU.

