

RAPID QUANTITATIVE DETECTION PLATFORM FOR MYCOTOXINS

UPT-Multi-parameter quantitative method

UPT 2800



The mycotoxin rapid quantitative detection platform is a portable rapid quantitative testing platform for the most common mycotoxins, such as Aflatoxin B1, Zearalenone, Vomitoxin, Fumonisin, T-2, and etc. This product adopts a new generation of patented background-interference-free luminescent rare earth nanomaterial biomarker technology (up-converting phosphor technology, UPT). Utilizing the fast and efficient photoelectric signal acquisition and analysis system, the devices facilitates sensitive and quantitative detection. Through in-depth study of the differences in the pre-processing and detection processes of different samples, the platform is compatible with multiple sample types.

The UPT testing platform is an epoch-making real-time solution of sensitivity and accuracy in the field of rapid detection of agricultural and food safety.

Mycotoxin test products

Product name	Product specifications	Linear range	Detection time
AFB1-UPT	40T/Kit	2-50ppb	15min
ZEN-UPT	40T/Kit	25-1000ppb	15min
DON-UPT	40T/Kit	0.2-4.5ppm	15min
FB-UPT	40T/Kit	0.3-6ppm	15min
T2-UPT	40T/Kit	25-600ppb	15min



Advantages of UPT mycotoxin rapid quantitative platform

- ◆ **Simple:**The experiment operation is simple, reducing the pressure on laboratory technicians. Operations training can be completed in as little as 30 minutes.
- ◆ **Fast:**Fast testing speed, high throughput, can test 180 items per hour.
- ◆ **Convenient:**Testing reagents do not require refrigeration or incubation, and samples can be tested as they arrive, allowing flexible arrangements for different testing items.
- ◆ **Precise:**The experimental data is accurate and reliable, comparable to national standard testing methods.
- ◆ **Safety:**Laboratory technicians do not contact with standard products, with no risk of poisoning. Reagents are harmless to the human body.
- ◆ **Convenient:**The sample preparation process is simple and fast. Reagents are suitable for samples of various types. No need to adjust PH values for fermented raw materials.
- ◆ **Professional:**The reagent strip has a built-in standard curve, corresponding to the scientific data integrated analysis system.
- ◆ **Reliable:**It has integrated self-test and calibration functions to ensure the accuracy of the system itself.
- ◆ **Multiple parameters:**Through in-depth study of the differences in the pre-processing and detection processes of different samples, the platform is compatible with multiple sample types.



Application Scenarios of using rapid testing methods

- ◆ Quickly obtain test results at the grain collection site
- ◆ Rapid testing of incoming raw materials
- ◆ Rapid testing of factory products

The significance of rapid quantitative results

- ◆ Selective collection of materials (graded procurement) controls prices based on toxin content;
- ◆ Provide reference data for formulas. Different feed standards use raw materials with different toxin contents;
- ◆ Only through quantitative production testing can risks be effectively monitored

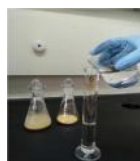


Requirements for mycotoxin testing: **Fast, Precise, Frequent, Urgent, Scattered**
UPT testing platform is the most suitable choice!

Mycotoxin testing procedures



Weigh the sample



Add extraction reagent



Shock extraction



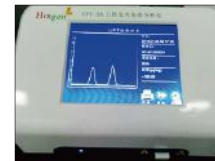
Centrifuge or filter



Take the supernatant, dilute and mix



Add sample and incubate



Read results