Mycotoxin Test

Mycotoxin detector

IMD-730 applies the principle of competitive suppression immunochromatography to quantitatively analyze mycotoxins in grain, feed and edible oil, including aflatoxin, vomitoxin, zeralenone, ochratoxin, fumonitoxin, T2 toxin, etc., by detecting the intensity of fluorescence in the fluorescence quantification card.

Test items:

Vomiting toxin: 100-5000ug/kg Sensitivity: 25ug/kg
Aflatoxin B1:10-50ug/kg Sensitivity: 0.5ug/kg
Zearalenone: 0-1000ug/kg Sensitivity: 2ug/kg
Ochratoxin: 10-500ug/kg? Sensitivity: 5ug/kg
Fumonitoxin: 100-5000ug/kg Sensitivity: 25ug/kg
T2 toxin: 100-5000ug/kg Sensitivity: 25ug/kg

Instrument function:

■ Display screen: 7-inch touch screen;
■ Operating system: Android9.0 operating system, 2G+16G (128G memory support);
■ Sample information: sample name, sample source and other information can be set;
■ User information: you can set the name of the detection unit, detection personnel and other information;
■ Detection information: detection result, result judgment, judgment basis, detection time and other information;
■ Intelligent detection: automatically identify the CT line position, detect the sealing design of the bin, automatically enter and exit the card, read the standard curve (support customized one-dimensional code or two-dimensional code scanning);
■ Data analysis: pie chart, bar chart and line chart of the test results were summarized and analyzed.
■ Data export: support USB data export, format optional (TXT, word);
■ GPS positioning: support positioning function;
■ System update: support remote update;
■ Communication interface: RS232, USBA, network port, wifi;
■ Printing function: Built-in 58mm thermal printer, printing information including sample information, user information, detection information, etc.
■ Temperature compensation: built-in 6 channels 37℃ independent constant temperature metal bath;
■ Auxiliary functions: independent 6-channel timer;
■ Data upload: Network port, wifi for data transmission and platform docking.

Specifications

Detection channel	Single channel
Detection method	Immunochromatographic fluorescence method
Measurement principle	Immunochromatographic colloidal gold method
Detection wavelength	excitation/emission spectrum :365nm/610nm(customizable)
Detection results	concentration value and positive judgment;
Accuracy	CV value ≤3%
Difference between batches	CV value ≤3%
Instrument size	300*350*135 (mm)

Colloidal gold immunochromatography analyzer

INC650 is suitable for PCT, HIV, CRP, BNP, MYO, CPV, CDV, FPV and other immunochromatographic colloidal gold diagnostic reagents.

Features:

Measurement principle

According to the visible spectrum analysis technique, the light absorption and reflection of colloidal gold particles at a specific wavelength are related to the amount of colloidal gold particles. The intensity of light absorption and reflection on the T and C lines of colloidal gold cards is detected by photoelectric sensor, and the ratio of the two peak areas (Dr) is calculated accordingly. Then the standard curve is made according to the ratio of the standard concentration to the peak area. In the actual test process, the ratio of the two peak areas is obtained by the gold standard card reader, and the concentration of the object to be measured can be obtained according to the drawn standard curve, and the test results can be intuitively obtained.

Specifications

Model	ICG-650	ICG-690
Detection channel	Single /triple card	four-channel
Detection method	Immunochromatographic colloidal gold method	
Measurement principle	Reflection spectrum test (non-photographic)	
Detection wavelength	525nm±5nm	
Test result	concentration value and positive judgment	
Accuracy	CV value ≤3%	
Difference between batches	CV value ≤3%	
Instrument size	305*215*160	410*330*215 (mm)