

Pesticide Residue Test

Automatic Agricultural Residue Preprocessor

The IARP-200 pre-treats organophosphorus and carbamate pesticide residues. It is suitable for food and drug regulatory departments, agricultural products testing centers, fast inspection vehicles, agricultural products wholesale markets, agricultural products planting and processing enterprises, catering hotels, schools, military cantons, all kinds of supermarkets, market markets, agricultural products planting bases, food production enterprises, industrial and commercial authorities at all levels, government agencies, import and export inspection and quarantine Bureau, technical health supervision and other departments.



Features:

- Suitable for agricultural residue speed measurement card method and enzyme inhibition rate method
- The inner and outer walls of the sample needle are automatically cleaned to avoid cross contamination;
- The instrument automatically weighs, adds liquid, mixes, extracts, pipettes, realizes full automation, saves time and effort;
- The sample is weighed within the weight range, and the instrument automatically adds reagents according to the weight of the sample to ensure the accuracy of adding liquid;
- The instrument comes with mixing function to make the reaction full and complete;
- Liquid feeding needle fixed installation, no reciprocating movement, good reliability
- Fully docking with the market fast inspection equipment for agricultural residues, reuse of the comparator, and equipped with a full set of equipment required for sample pretreatment;
- Convenient operation, no need for professional operators, manpower liberation, improve efficiency.

Specifications

Number of sample cups	12/plate
Sample processing speed	80T/H (national standard mode 2min); 100T/H (fast mode 30s)
Sampling accuracy	±0.05g
Adding sample accuracy	±0.2g
Ambient temperature	5°C~40°C
Relative humidity	not more than 85%
Supply voltage	220V±10%, 50/60Hz
Instrument size	428*428*334mm

Automatic Sample Preprocessor

The IARP-300 pre-treats organophosphorus and carbamate pesticide residues. It is suitable for food and drug regulatory departments, agricultural products testing centers, fast inspection vehicles, agricultural products wholesale markets, agricultural products planting and processing enterprises, catering hotels, schools, military cantons, all kinds of supermarkets, market markets, agricultural products planting bases, food production enterprises, industrial and commercial authorities at all levels, government agencies, import and export inspection and quarantine Bureau, technical health supervision and other departments.



Features:

- Suitable for agricultural residue speed measurement card method and enzyme inhibition rate method
- The inner and outer walls of the sample needle and reagent needle are automatically cleaned to avoid cross contamination;
- Automatic weighing, adding liquid, mixing, extraction, pipetting, reagent adding, to achieve full automation, saving time and effort;
- The sample is weighed within the weight range, and the instrument automatically adds reagents according to the weight of the sample to ensure the accuracy of adding liquid;
- The instrument comes with incubation function, constant temperature 37°C, to ensure the detection accuracy;
- The instrument comes with mixing function to make the reaction full and complete;
- Seamless docking with the market pesticide inspection equipment, reuse of the comparator, and equipped with a full set of sample pretreatment accessories;
- Convenient operation, no need for professional operators, manpower liberation, improve efficiency.

Specifications

Number of sample cups	12 / plate
Sample extraction speed	32T/H (including incubation)
Sampling accuracy	±0.05g
Sampling accuracy (buffer)	±0.5g
Additional dose (enzyme, substrate, color developer)	±0.005g
Ambient temperature	5°C~40°C
Relative humidity	not more than 85%
Supply voltage	220V±10%, 50/60Hz
Instrument size	486mm*448mm*360mm

Automatic Agricultural Residue Processor and Detector

The IARP-800 pre-treats organophosphorus and carbamate pesticide residues. It is suitable for food and drug regulatory departments, agricultural products testing centers, fast inspection vehicles, agricultural products wholesale markets, agricultural products planting and processing enterprises, catering hotels, schools, military cantons, all kinds of supermarkets, market markets, agricultural products planting bases, food production enterprises, industrial and commercial authorities at all levels, government agencies, import and export inspection and quarantine Bureau, technical health supervision and other departments.



Features:

- suitable for residue velocity measurement card method and enzyme inhibition rate method;
 - The inner and outer walls of the sample needle and reagent needle are automatically cleaned to avoid cross contamination;
 - Automatic weighing, liquid adding, mixing, extraction, pipetting, reagent adding, testing to achieve full automation, saving time
- Force;
- When the sample is weighed within the weight range, the instrument automatically adds reagents according to the weight of the sample to ensure the accuracy of liquid adding;
 - The instrument comes with incubation function, constant temperature 37°C, to ensure the detection accuracy;
 - The instrument comes with mixing function to make the reaction full and complete;
 - no need to support the agricultural residue detector, one can complete all operations;
 - the colorimetric dish is reused and equipped with a full set of sample pretreatment accessories;
 - convenient operation, no need for professional operators, manpower liberation, improve efficiency.

Specifications

Number of sample cups	12 / plate
Sample detection speed	36T/H (fast mode)24T/H (standard mode)
Sampling accuracy	±0.05g
Sampling accuracy (buffer)	±0.5g
Additional dose (enzyme, substrate, color developer)	±0.005g
Ambient temperature	5°C~40°C
Relative humidity	not more than 85%
Supply voltage	220V±10%, 50/60Hz
Instrument size	490mm*490mm*430mm

Agricultural residue monitor (Android system)

INC can rapidly detect organophosphorus and carbamate pesticide residues; It is suitable for testing pesticide residues in fruits and vegetables in vegetable testing centers, farmers' markets, supermarkets, hotels, planting bases and other food safety testing and monitoring places to meet the needs of outdoor, vehicle and laboratory.



Features:

support 128G expansion

- Sample information: The detection channel can independently set sample information (sample name, source information, etc.);
- User information: can set the detection unit information (name, address, telephone, responsible person, detection personnel and other information), can be set up multiple accounts;
- Detection information: absorbance, transmittance, detection result (inhibition rate), result judgment, judgment basis, detection time and other information;
- Intelligent detection: simultaneous or independent detection of control and sample, compatible with single channel or multi-channel simultaneous detection;
- Data analysis: pie chart, bar chart and line chart are used for statistical summary analysis of the test results;
- Retrieval function: sample name retrieval and selection, historical record retrieval and query;
- Data export: support USB data export, format optional (TXT, Excel);
- GPS positioning: support positioning function;
- System update: support remote update, new version automatic update;
- Communication interface: built-in TF memory expansion jack, RS232, type A USB, network port, wifi, Bluetooth, etc.
- Printing function: Built-in 58mm thermal printer, single or multiple data combined printing, printing information including sample information, user information, detection information, etc.
- Image assistance: built-in operation video steps to assist learning operations;
- Data upload: Support SIM (2G/3G/4G full netcom), network ports, wifi for data transmission and docking with local regulatory platforms;
- Unit module: independent detection unit, each unit is composed of a set of light source system, a sample warehouse, a set of optical path detection system.

Specifications

Model	INC-10A	INC-12A	INC-16A	INC-16C	INC-24C
Detection channel	10	12	16	16	24
Test item	Organophosphorus and carbamate pesticide				
Wavelength range	412nm ± 2nm				
Detection range	0.00-100% (inhibition rate)				
Zero drift	Plus or minus 0.5% or less				
photodrift	Plus or minus 1.0% or less				
Transmittance error	Plus or minus 2.0% or less				
Transmission specific gravity recombination	0.5% or less				
Interchannel difference	1% or less				
Data storage	80,00 pieces				
cuvette	10× 10mm standard sample pool				
Instrument size	350*300*155 (mm)			420*290*155 (mm)	

Pesticide residue detector (Suitcase model)

INC Pesticide residue analyzer is a portable pesticide residue detector, using the integrated design structure of the box, portable, to meet different application scenarios; Rapid detection of organophosphorus and carbamate pesticide residues in vegetables; It can be widely used in vegetable testing centers at all levels, farmers markets, supermarkets, environmental protection agencies, vegetable planting bases, restaurants, vehicles and laboratories and other food safety testing and monitoring sites to detect pesticide residues in fruits and vegetables.



Features:

- Display screen: 7-inch touch LCD screen;
- Operating system: Android9.0 operating system, 2G+16G (external TF memory support expansion 128G);
- Testing basis: national standard (GB/T5009.199-2003), Ministry of Agriculture standard (NY/T448-2001), Food and Drug Administration standard (KJ201710);
- Sample information: the detection channel can be independently set sample information (sample name, source information, etc.);
- User information: can set the detection unit information (name, address, telephone, responsible person, detection personnel and other information), can be set up multiple accounts;
- Detection information: absorbance, transmittance, detection results (inhibition rate), result judgment, judgment basis, detection time and other information;
- Intelligent detection: control and sample simultaneous or independent detection, compatible with single channel or multi-channel simultaneous detection;
- Data analysis: pie chart, bar chart and line chart were used for statistical summary analysis of the test results;
- Search function: sample name search and selection, historical record search and query;
- Data export: support USB data export, format optional (TXT, Excel);
- GPS positioning: support positioning function;
- System update: support remote update, new version automatic update;
- Communication interface: external SIM card jack (support 2G/3G/4G full netcom), external TF memory expansion jack, RS232, type A USB, type B USB, network port, wifi, Bluetooth, etc.;
- Printing function: built-in 58mm thermal printer, single or multiple data combined printing, printing information including sample information, user information, detection information;
- Image assistance: built-in operation video steps to assist learning operations;
- Data upload: support SIM (2G/3G/4G full netcom), network ports, wifi for data transmission and docking with local regulatory platforms;
- Unit module: independent detection unit, each unit is composed of a group of light source system, a sample warehouse, a group of light path
- Appearance structure: box integration; Meet the car, laboratory, outdoor different application scenarios.

Specifications

Model	INC16ST	INC24ST
Detection channel	16 channel	24 channel
Detection item	Organophosphorus and carbamate pesticide residues	
Wavelength range	412nm ± 2nm	
Detection range	0.00-100% (inhibition rate)	
Zero drift	≤±0.5%	
Photoelectric drift	≤±1.0%	
Transmittance error	±2.0%	
Transmission specific gravity refolding	≤0.5%	
Difference between channels	≤1%	
Data storage	80,00 pieces	
Color plate	10× 10mm standard sample pool	
Instrument size:	420*290*155 (mm)	

Colloidal gold farinon residue detector

INC650 colloidal gold farinon residue detector can be widely used in vegetable testing centers at all levels, farmers markets, supermarkets, environmental protection agencies, vegetable planting bases, restaurants, vehicles and laboratories and other food safety testing and monitoring sites to detect pesticide residues in fruits and vegetables.



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 (D_r) 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

Detection channel	Single channel
Detection method	Immunochemical colloidal gold method
Measurement principle	Reflection spectrum test (non-photographic)
Detection wavelength	525nm \pm 5nm
Test result	concentration value and positive judgment
Accuracy	CV value \leq 3%
Difference between batches	CV value \leq 3%
Instrument size	300*350*135 (mm)