

## pesticide test, pesticide residue testina

## Model: APEX-JCX565

Standard: GB/T5009.199-2003 Introduce: Pesticide residue fast analyzer is commonly used food lab equipment. This produc ses the enzyme inhibition rate method , using a onal standard G...

## **Detailed product information**

APEX-JCX565 Pesticides Residues Fast Analyzer

First, pesticide test, pesticide residue testing introduction

First, pestidide test, pestidide residue testing introduction

Pestidide residue fast analyzer is commonly used food lab equipment. This product uses the enzyme inhibition rate
method, using a national standard GB/T5009, 199-2003, rapid detection of pestidide residues in the sample, is widely
used in vegetables, fruits, grains, tea and soil quickly detect organophosphate and carbamate pestidide residues.

Suitable for all levels of agricultural testing centers, production bases, farmers markets, supermarkets, health,
environmental protection, hotels and other fields.

Second, the pestidide testigetestide residue testing characteristics

1 instrument plastic enclosure, streamlined design (appearance patent number: ZL200830111211.8), specially treated
surface oxidation.

surface oxidation. 2 large-screen LCD display screen with tempered glass protection , anti-scratch , clear screen , user-friendly interface ,

intuitive readings.

3 soft keys, life up to 500,000 times , waterproof, dustproof, can be cleaned , disinfected , anti-bacterial , anti-static, use

noiseless operation fast response characteristics.
4, a new optical system, making this product has excellent optical performance, high accuracy, long-term stability of the characteristics of the instrument, is the most advanced and practical analytical instruments.

5, light-emitting diode, has the advantage of energy saving, environmental protection, energy saving, long life, fast onse and so on

response and so on.

8. danante listing technology , one can defect eight samples simultaneously display the measurement results.

7. high sensitivity, methamidophos , dichlorvos and other pesticides minimum detection limit is better than national standards.

8. color kit , sample and reagent consumption , to prevent secondary pollution.

9. the internal microprocessor power lines , light and other self- diagnosis.

10. can be readily detected by testing dates and number access, print, delete the stored measurement data.

11. the instrument is equipped with R8-232 interface and USB interface for data processing by computer , statistical analysis and remote instrument control program upgrades.

12. a powerful surveillance network information , including measurement data systems and monitoring and management system. The imperimentation of several sets statistics uperv exchance and drinting Remote monitoring and

system, the implementation of several sets, statistics, query, exchange and printing. Remote monitoring and management can be effectively implemented.

13, with a car power supply interface, user-friendly equipment for mobile testing vehicles

14, to provide a complete attachment configuration, the use of beautiful, durable aluminum toolbox, user-friendly ation at a fixed or mobile laboratory laboratory

operation at a fixed or mobile laboratory laboratory. Inirid, the pesticide test,pesticide residue testing detection principle. Pesticide residue fast analyzer is commonly usedfood lab equipment., Under certain conditions, organophosphate and carbamate pesticides on cholinesterase inhibition of the normal function of the concentration of the inhibition rate was positively correlated with the pesticide. Under normal circumstances, the enzymatic metabolism of nerve conduction ( acebircholine) hydrolysis product of hydrolysis reaction with chromogenic agent, a yellow substance was measured by a spectrophotometer absorbance at 412mm with time variation value, the inhibition rate calculated by the inhibition rate can determine whether the sample contains residual organophosphate or carbamate pesticides. This method has become the national standard method (GBITG009.199-2003).

Fourth, the technical parameters Light current stability : ≤ 1% T/3min

Transmittance accuracy : ≤ 1.5% T

Transmittance Repeatability : ≤ 0.5% T

Wavelength: 412nm Number of channels: 8 inhibition rate

Number of channels: 8 inhibition rate
Measuring range: 0 to 100%
Chromogenic test reaction time: 1 ~ 999s optional
Instrument Dimensions: 380mm380mm T70mm
Fifth, the instrument under normal operating conditions
1, ambient temperature 5°C ~ 35°C. Indoor relative humidity less than 85%.
2, the instrument should be placed on a stable work surface, no direct sunlight and strong electromagnetic interference. 3, interior non-corrosive gases 4, Power Supply: A, Input 100 ~ 230VAC 50Hz/60Hz B, 12V vehicle power supply (optional)

Sixth, pesticide test, pesticide residue testing use

1, the boot

Plug in the power, turn the power switch on the back of the green instrument, the instrument displays the boot screen press the screen prompts, press the Enter key, the instrument starts a self-test, for about 1 min. After the self-test is completed, the instrument into standby detection state.

completed, the instrument into standby detection state.
2, reagent preparation (reagents: AB204 pesticide speed test agent)
2.1, buffer: Take a packet buffer was added 500mL distilled water or purified water, stirred and dissolved to prepare a phosphate buffer solution (pH7.6), at room temperature.
2.2 Reagent: Take a bottle of reagent added 25mL buffer solution, when used to take 100µL, 4 °C refrigerator.
2.3, substate: Take a bottle plus 12.5mL matter dissolved in distilled water or purified water, when used to take 100µL, 4 °C refrigerator; or take a bottle plus 2.5mL matter dissolved in distilled water or purified water, taken when using 20µL, 4 °C refrigerator; or take a bottle plus 2.5mL matter dissolved in distilled water or purified water, taken when using 20µL, 4 °C refrigerator; or take a bottle plus 2.5mL matter dissolved in distilled water or purified water, taken when using 20µL, 4 °C refrigerator. °C refrigerator 2.4 cholinesterase : without enzyme preparation, direct access , when used to take 100µL, 4 °C refrigerato

3, sample extraction

Take 2g fruit and vegetable samples ( tubers take 4g), leafy vegetables cut into pieces about 1cm square, cross-sectional sample taken tubers or whichever epidermis , into the flask , add 10mL buffer, shaking 1 ~ 2min, pour The extract was allowed to stand for 2min, tested . If too many impurities can be filtered extract turbidity or after the test .

4.1 the control test the reaction flask 2.5ml, buffer then were added to 100ul, enzyme solution and reagent, mix and let 4.1, the control test the reaction flask 2.5mL, buffer, then were added to 100µL enzyme solution and reagent, mix and let stand 10min reaction after adding 100µL (or 20µL) substrate, shake and immediately pour over cuvette and timely measurement chamber into the instrument channel 1, close the lid. Press 49b keys below the display after a delay 10s, measuring time stants countdown timer is completed, the display shows the absorbance increment (ΔA0) and inhibition. During the control test, 2 to 8 channels can be simultaneously sample testing. 42, sample test: the reaction flask 2.5mL test solution, and then were added to 100µL enzyme solution and reagent, mix and let stand 10min reaction after adding 100µL (or 20µL) substrate, shake and immediately pour cuvette into the instrument's measurement chamber timely passage, close the Id. Press 4the keys below the display after a delay 10s, measuring time starts countdown timer is completed, the display shows the absorbance increment (ΔA1) and inhibition. Data is automatically saved, if necessary, by \$20 button to north. <P> button to print

Sixth, the results of determination

To spectrophotometer (412nm wavelength ), the inhibition rate calculated as follows:

Inhibition rate (%) = [(\( \Delta A0-\Delta At\) / \( \Delta A0\) 100

Could's Test to personate value of the country and the country inhibition rate a 50%, sature support of the string still positive gas chromatography manufacture. Seven postude testing advantages detection

Seven postude test postude residue testing advantages detection

Pesticide residue fast analyzar is commonly used food lab equipment.

1, at room temperature for color reaction, without constant temperature, short detection time.

2, using the latest detection methods, effectively overcome the interference of endogenous substances in fruits and vegetables can be tested onions, ginger, gartic, leeks and carrots and other spicy and colored samples.

3, the enzyme reagent has excellent thermal stability, high temperature heat to facilitate the transport and storage of the season.

GB / T 5009.199-2003 and agriculture industry standards NY / T 448-2001 prescribed , with a test report Fight additional instructions

Eight adominal instructions.

1, packaging and preservation: pesticide-speed test agent containing buffer 10 packets, cholinesterase 10 bottles, 2 bottles of reagent, substrate 4 bottles for 500 samples tested; whole box before using the reagents should be kept in 4 retrigerator shelf life of 12m contair, at room temperature or at room temperature, shelf life of three to six months.

2, the use of reagents: any reagent used to open a bottle with a bottle, exhausted after using new agents to prevent

3 , only the reagents Nothing principle : When testing, sucked out from any reagent bottle reagent , reagent bottle ban

4, special principles appliances: Any equipment and containers for each pipetting should be labeled, used alone, to avoid cross -contamination

5 , the detection operation using pipettes and liquid discharge process , the need to appropriately control the tempo in order to avoid excessive absorption of subretinal fluid solution or the amount of lead allowed to add reagents, and help

6, the instrument may be common to the national standards by industry standards NY/T448-2001 GB/T5009.199 and detection reagents. Use reference reagents supporting manual.

7, a more detailed instrument operation, refer to the instructions accompanying the product