

AccuTest

Enzyme Inhibitor Testing Solution



RAPID TEST FOR ORGANOPHOSPHORUS AND CARBAMATE



Rapid test



Enzyme inhibitor detection



Internal memory



Large LCD screen



Easy operation



PC link

Product Features

The Accutest Enzyme Inhibitor Testing Solution is a rapid test solution using Acetylcholine esterase (AChE) to detect Organophosphorus and Carbamate in fruits, and vegetables. The solution includes Accutest strips with AChE enzyme coating, and the Accutest meter to provide users with quantitative results in inhibition rate to determine the residual amount of Organophosphorus and Carbamate within the testing sample.

The testing method used by the Accutest solution is a break through compare with the old testing method which uses lots of liquid waste and requires professional treatments. The solution uses dry strips to detect inhibition rate, and doesn't require any heating device which eliminates the need for professional training.

To compensate with different environmental conditions the Accutest meter also has a built-in thermal sensor to detect environmental temperature, if the variation of the temperature is more than 5°C the Accutest meter will require users to redo the control test to get the best testing results.

With the dry form strips and quantitative result displaying meter provided by the Accutest Enzyme Inhibitor Testing Solution, users require little or no training to determine the residual amount by inhibition rate for Organophosphorus and Carbamate within a sample. This solution is best suited for supermarket, farms, kitchens, and other areas where a reference reading number is needed.

Key Features

■ *Patent pending testing solution*

The Accutest Enzyme Inhibitor Testing Solution uses a dry strip and a reflectance meter to provide quantitative result in inhibition rate. In comparison with the old AchE testing method which includes liquid solutions, heating device and an absorbance meter, the Accutest solution is a much easier way for users to test samples.

■ *Quick and easy way to analyze residual amount of Organophosphorus and Carbamates*

The Accutest Enzyme Inhibitor Testing Solution provide a fast and easy way to determine Organophosphorus and Carbamate within a sample. Users will only need to drop a few drops of the sample solution on the Accutest strip with the cartridge, and insert the cartridge into the meter. The meter will provide a quantitative result of AchE inhibition rate for Organophosphorus and Carbamate compound. With the Accutest solution users will require little or no training to determine the residual amount of Organophosphorus and Carbamates on a sample.

■ *Cartridge sample holder designed to prevent contamination*

The patented cartridge holder design of the Accutest Enzyme Inhibitor Testing Solution is specifically designed to prevent contamination when testing different samples. Users will only need to place the Accutest strips on the cartridge and insert the cartridge into the Accutest provide a read of the AchE inhibition rate. After the test, user can rinse the cartridge with clean water for reuse or use another cartridge for further testing.

■ *Built-in self test function*

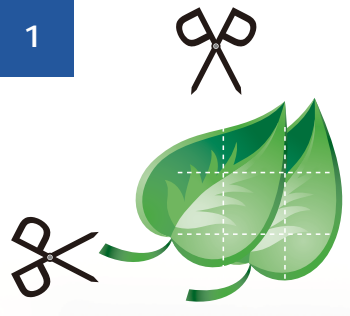
The built-in self test function within the Accutest meter helps user check error within the meter, and testing results. After powering on the Accutest meter the meter performs a self check on the hardware to ensure the meter is functional correctly. When performing tests the meter compare the temperature between control and sample tests, if the temperature variation is more than 5 °C, the Accutest meter will ask user to perform another control test to provide the most accurate sample testing results.

■ *Designed for both laboratory and field*

The Accutest meter can operate in both AC or battery powered. Users will have the option to power the meter with the AC power adapter when in a laboratory, or use AAA batteries when on the field. The meter also includes 320 sets of internal memory to store data and a USB port to export data onto a PC.

Testing procedure

1



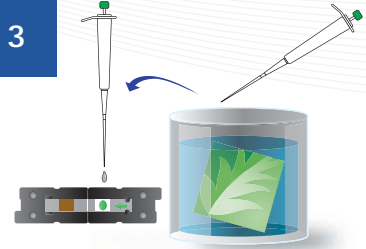
Sample preparation

2



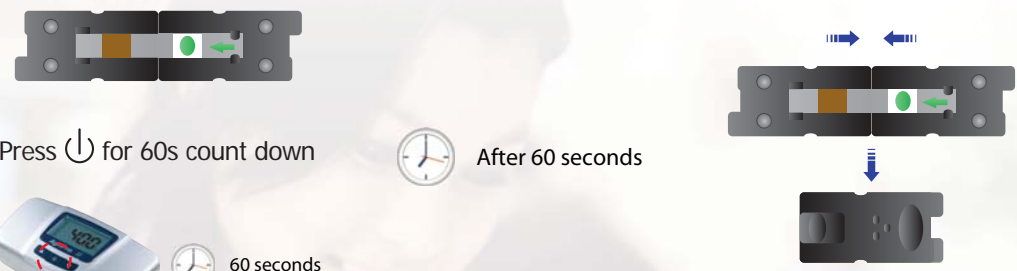
Sample extraction


3



Sample fluid dropping

4



Press  for 60s count down

After 60 seconds

60 seconds

Meter count down

5

- ▶ After 60s, AccuTest meter will start 15s countdown
- ▶ Insert the cartridge within 15s
- *  15 seconds
- ▶ After 180s countdown AccuTest meter will show the results on screen
-  180 seconds



Sample result reading

Specification

Model	AccuTest
Light source	LED
Detection method	Reflectance
Measurement unit	% inhibition Rate
Detection range	15%~85%
Detection time	180s
Wavelength	615nm
Precision	+/- 3%
Working temp	10~40°C (50~104°F)
Internal memory	320sets
Display	52 x 32 mm LCD
Data output	USB
Power	100~240V DC 6 +/- 0/6V AAA battery x 4
Dimension	89.5(W) x 160(D) x 36.6(H) mm
Weight	0.16KG

*Metertech reserve the right to alter specifications without notice

Ordering Information

DESCRIPTION	PART NUMBER
Accutest Main unit	ATM001
30 Accutest Strips Package	ATS030
Buffer solution	ATA001
Power adapter	ATA002



63-2, Cheng Gong Road, Sec. 1, Nangang, Taipei, Taiwan, R.O.C.
Tel.: +886-2-2783-2854 Fax: +886-2-2783-1764
www.metertech-inc.com info@metertech.com.tw



© 2009 Metertech, Inc. All right reserved