

Microbiological Test

Intelligent ATP Fluorescence Detector

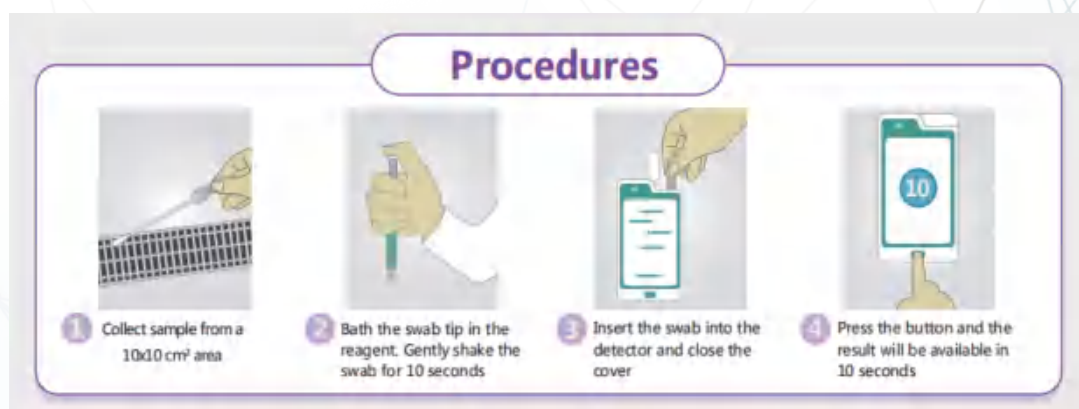
IATP-1000 Intelligent ATP Fluorescence Detector uses a highly sensitive photomultiplier to detect bioluminescence generated by the testing reagent. It can calculate and analyze test results according to the strength of the bioluminescence.



Features:

Intelligent ATP Fluorescence Detector is composed of PureTrust™ Intelligent Fluorescence Detector and PureTrust Surface Swabs. Based on firefly luminescence principle, the system utilizes luciferase-luciferins reaction system to quickly detect adenosine triphosphate (ATP) to evaluate the hygiene status. MF1000Premium Intelligent Fluorescence Detector is suitable for hygiene monitoring in food processing, catering, etc.

- Weight only 385g (155x85x40mm), small and portable
- Android system, equipped with 4.3-in
- High resolution touch screen, very easy to use
- Built-in gyroscope sensor, alerts users to avoid excessive tilt
- Built-in lid sensor, the test tube insert and detection sensor



Specifications

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|-------------------------|-----------------------|
| Model | IATP-1000Premium |
| Sensitivity | 10 ⁻¹⁷ mol |
| Repeatability: | <14% CV |
| Instrument size (L×W×H) | (155x85x40mm) |
| Weight | 385g |

ATP fluorescence detector

IATP-17 equipment is suitable for rapid detection of microorganisms in food and drinking water, rapid detection of tableware cleanliness, rapid detection of disinfection results of food processing utensils, work tables, dining utensils, and instant assessment of environmental work platforms. The equipment uses biochemical reaction method to detect the total content of ATP colonies. It has the advantages of fast, accurate, sensitive, simple and reliable, can obtain the test results in tens of seconds, and can be operated by the general staff with simple training.



Features:

- Limit setting: can customize the detection upper limit and detection lower limit;
- Data storage: two modes of historical record closing and opening, storing data including detection results, result judgment, detection upper limit, detection lower limit, detection time and other information;
- Storage function: automatically store more than 20000 test results;
- Data export: support USB data export;
- Data processing: PC software can be configured for data processing, statistical analysis and result uploading;
- Reagent open: universal domestic and international integration of swab collection and swab separation;
- Exquisite packaging: aluminum alloy packing box and ATP special swab cold box;
- Accurate detection: a significant low background value is more conducive to the detection of trace ATP, with good reproducibility;
- Power management: 3000mAh large capacity rechargeable lithium battery power supply, charging through Mini USB port, optional solar charger, car power charger;
- Man-machine dialogue: The interface is simple and easy to operate, with adjustable screen time setting, adjustable display brightness, voice prompt to open and close, history record to close and open;
- Intelligent detection: two test modes of fast test and standard measurement are available; Built-in high-precision tilt sensor, tilt out of range, detection interruption; Ensure the accuracy of detection real-time monitoring of instrument inclination status, improve the detection accuracy, sampling rate 1000 times per second, 15 seconds to detect a sample;
- Calibration function: boot self-calibration function;
- Shell design: Special sealing material is used to improve light avoidance, and high-precision Hall sensor is built in to detect whether the upper cover is completely closed and whether the swab is placed in the bin, reducing external interference and making the test result more accurate and stable.

Specifications

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|------------------------------|---|
| Model | IATP-17 |
| Detection accuracy | $\leq 1 \times 10^{-16}$ mole ATP |
| Detector | High sensitivity photomultiplier tube |
| Background noise value | 0RLU |
| Detection range | 0-9999RLU (relative luminous unit) |
| Detection accuracy | 1 RLU (relative luminous unit) |
| The lower limit of detection | the total microbial amount can reach 1.4 CFU/ml |
| Linear error | $\leq 3\%$ |
| Accuracy error | $\pm 5\%$ |
| Power supply | 5V, 10W |
| Operating temperature | 5°C to 40°C |
| Relative humidity | 20%~80% |
| Storage temperature | -10°C~40°C |
| Instrument size (L×W×H) | 195*75*40 (mm) |
| Weight | 300g |