

RAPID RESPONSE KIT

IDEAL FOR EMERGENCY SITUATIONS

 wagtech



POTATEST

portable water testing kit



MICRO-BIOLOGICAL & PHYSICO-CHEMICAL TESTING

Conforming to WHO



Guidelines

POTATEST

- Low cost portable water testing laboratory
- Ideally suited for use in emergency situations or naturally occurring disasters, refugee camps etc
- Switchable incubator (between 37 °C & 44 °C) for faecal & total coliform analysis
- Multiple Physico-Chemical parameters including pH, Turbidity, Chlorine & more parameters of local significance
- Used extensively by UNICEF, WHO and NGOs worldwide
- Training & Technical Support available locally in many countries throughout the world

SPECIAL PRICE FOR NGOs



New design single pot incubator switchable between 37°C & 44°C for faecal and total coliform analysis, conforming to WHO guidelines. Allows a complete and accurate bacteriological analysis to be carried out in the field.

A total of 18 tests can be carried out at one time. Uses slim-fit reusable aluminium petri dishes or 10 plastic petri dishes with strap. Petri Dishes held in aluminium racks for easy loading.

The incubator can be powered in a number of different ways:

- Mains AC Electricity Supply (110/220V) via transformer/battery charger
- Internal rechargeable and removable DC battery - 12V, 12Amp/Hr
- 12V Battery Cable with crocodile clips
- Via cable from vehicle cigarette lighter socket
- Solar Panel Power Pack (available as an option)

The rechargeable battery is capable of running for up to 5 incubation cycles, before it requires recharging. Full recharging can take place overnight (approximately 8 hours).

The Potatest includes a Membrane Filtration Unit (MFU) that uses 0.45µm pore size membrane filters. The MFU comprises separate filter and sample cups, a hand operated vacuum filter pump, bronze disc, gaskets, O'Rings and a landline. All the metal parts of the Membrane Filtration Unit are easily sterilised in the field using Methanol, allowing aseptic procedure to be followed during microbiological testing. The kit is supplied complete with enough consumables to carry out 200 micro-biological tests, these consumables comprise gridded membrane filters, growth pads and 38.1g of membrane lauryl sulphate, the preferred growth medium for coliform bacteria.

Additional accessories include:

A pad dispenser, forceps, dropping pipettes, autoclavable bottles, plastic beaker, Media measuring device, cigarette lighter, portable magnifier, a tube of silicone grease, stopwatch and ballpoint pen. Also supplied are a screwdriver, and a spirit thermometer.



Specification

Temperature switchable (37°C-44°C)

Accuracy: ±0.2°C

Dimensions: 155 X 230 X 200 mm

Weight: 3.3Kg

MICRO-BIOLOGICAL TESTING

MICRO-BIOLOGICAL TESTING



PHYSICO-CHEMICAL TESTING

PHYSICO-CHEMICAL TESTING

Colour Comparator

Quick and easy to use Comparator for visual detection of chemical parameters. Supplied with DPD1 & 3 reagents and colour disc to measure free & total chlorine (enough for 250 tests). Capable of measuring up to 30 additional chemical parameters with appropriate reagents (ordered separately).

pH/°C Meter

pH is measured using a waterproof pocket digital pH meter. Range -1.0 to 15.00 pH x resolution 0.01pH, and 0.0 to 50.0 °C temperature. Large Dual Screen LCD Display of pH and temperature. With Auto-buffer Recognition, Push-button Calibration, 3-point, Hold function, Auto-off and ATC. Supplied complete with interchangeable electrode and pH 4 & 7 Buffers.

3-Part Turbidity Tube

Turbidity is measured using a graduated three-part turbidity tube that is capable of measurements within the range 5 to 500 turbidity units (NTU).

Wag-Sac

Waterproof, lightweight backpack for carrying manuals, sample bottles, and additional reagents & consumables.



ORDERING INFORMATION

SPARES, ACCESSORIES & CONSUMABLES

Wagtech Potatest Wag-WE10005

Purchase details:

Potatest portable microbiological and physico-chemical testing laboratory.

Comprises the following components:

Micro-Biological Testing

Single Incubator, switchable between 37°C & 44°C, spirit thermometer, 18 re-usable aluminium petri dishes. Power supply to incubator is via an integral 220/110V AC mains adaptor/battery charger, electrical lead for 12V DC operation via vehicle dash board cigarette lighter, and crocodile lead for use with re-chargeable battery. Membrane filtration unit inc: Hand operated vacuum pump, sampling cup and line, alongside 250 gridded membranes and 38.1g membrane lauryl sulphate broth.

Physico-Chemical Testing

Pocket pH meter, a 3 part Turbidity tube, and a Wagtech Colour Comparator with reagents and colour disc to test for free and total chlorine (250 tests).

The Complete kit for microbiological and physico-chemical testing is housed in a SINGLE robust, waterproof, fully lockable lightweight case and is supplied with a rucksack for additional components and reagents. Illustrated operation manuals in English are supplied as standard. Other languages are available upon request.

Pocket Conductivity Meter

Coliform Starter Pack, pads, membranes & media for 200 tests

Lauryl Sulphate Broth, 38.1g (200 tests)

Lauryl Sulphate Broth, 500g (2600 tests)

Comparator Reagents, Chlorine - DPD1 & 3

Comparator Colour Disc, Chlorine - DPD1 & 3

Additional comparator reagents available upon request

Absorbent Pads & Membranes

- (Pack of 200)

- (Pack of 1000)

Pad Dispenser

Faecal Streptococci Starter Pack (Slanetz & Bartley Media), 200 tests

M-FC Nutri Disk for detection of E.coli & Faecal Coliforms (pack 50)

Azide Nutri Disk for detection of Faecal Streptococci (pack 50)

Membrane Filtration Unit

Spares Kit for Filtration Unit, comprising of filter disk and gasket kit

Aluminium Petri Dishes (55mm dia x 4mm depth), pack of 18

Aluminium Petri Dishes (55mm dia x 6mm depth), (Faecal Streptococci Analysis)

Pair of tweezers

Cigarette lighter

Hand Lens

Screwdriver

Lubricating grease - 60g tube

Nail clippers

Spare internal battery for Potatest

Spirit thermometer for checking incubator temperature

WagPac - disposable water sample bags (Pack of 500)

Media Measuring Device (MMD) (pack of 5)

Please contact sales@wagtech.co.uk for further information

Wag-WE30040

Wag-WE10450

Wag-WE10454

Wag-WE10452

Wag-WE10314

Wag-WE10214

Wag-WE10460

Wag-WE10462

Wag-WE10464

Wag-WE10458

Wag-WE10064

Wag-WE10060

Wag-WE10400

Wag-WE10402

Wag-WE10407

Wag-WE10409

Wag-WE10412

Wag-WE10414

Wag-WE10416

Wag-WE10418

Wag-WE10420

Wag-WE10422

Wag-WE10424

Wag-WE10426

Wag-WE10428

Wag-WE10429

112 POTATESTS FOR UNICEF IN BANDA ACEH!

As part of the Emergency relief response in the immediate aftermath of the Tsunami disaster in Southern Asia, Wagtech supplied 112 of its Potatest emergency test kits to UNICEF. The whole order was turned around in less than 7 days proving Wagtech's capability to respond instantly in times of dire emergency. The Potatest is stocked in large numbers at the Wagtech warehousing facility allowing this kind of rapid response, ensuring the kits are on the ground, and ready for use within the shortest possible time. This kind of natural disaster is exactly the type of situation that the Potatest was designed for. The kits are now in use in the affected areas helping prevent further outbreak of water-borne diseases.

TESTING WATER WORLD WIDE

WHO ORDERS 70 POTATESTS FOR ZIMBABWE

Wagtech demonstrated its ability to respond rapidly in times of emergency recently when it supplied 70 Potatests and large quantities of consumables to World Health Organisation (WHO) in Zimbabwe. Following on from the recent tragic Cholera epidemic in the country it was determined that water quality monitoring capacity needed to be substantially upgraded. It was decided that bids would be invited internationally for the supply of portable water testing kits. The kits were to be procured through the African Regional Office of the World Health Organisation (AFRO) based in Brazzaville, Congo. However, the investment made by Wagtech in holding large levels of stock for its UN partners for emergencies paid dividends. Because of our ability to deliver these kits instantly, Wagtech was able to secure the contract and supply its own manufactured kit. Wagtech supplied the equipment within two weeks and followed up this delivery with training in Zimbabwe for Ministry of Health technicians, the recipients of the kits.

TESTING WATER WORLD WIDE

WAGTECH SECURES PAHO ORDER FOR ECUADOR

Following on from a meeting with procurement officers of Pan American Health Organisation (PAHO) at Aid and Trade in Washington DC, Wagtech secured receipt of a purchase order for 110 Potatests. Competing against a rival manufacturers specification that was detailed in the tender, Wagtech secured the order from PAHO on behalf of the WHO office in Ecuador, South America. This order further strengthened Wagtech's position as the preferred supplier of water testing equipment and highlighted the importance of holding large numbers of kits in stock allowing immediate delivery to the UN and NGO community. This was the biggest single order ever received by Wagtech for a Latin American country. Wagtech supported the supply of equipment via their local office in Ecuador and carried out training on the use of the kits for the end-users.



POTATEST - FREQUENTLY ASKED QUESTIONS

1. I want to carry out tests for both total and faecal coliforms? Can this be done with the Potatest?

Answer: Yes, unlike some other single channel incubators that are available, the Potatest incubator is instantly switchable between the temperatures of 37 °C and 44 °C.

2. I currently have another brand water testing kit but have found the combined pool & pH tester it contains to be a little inaccurate? Is the Potatest any better?

Answer: The Potatest uses separate instruments to measure pH & Chlorine. There is a digital pH meter and Chlorine is measured using a more accurate colour comparator system, the kit is supplied with reagents (for 250 tests) to test for free and total chlorine as standard.

3. In addition to chlorine, I wish to test for a number of different chemical parameters, such as copper and iron, can I do this using the Potatest?

Answer: Yes, by using the colour comparator system additional chemical parameters of local significance such as, ammonia, nitrates, fluorides etc can be measured. To do this simply requires the purchase of the corresponding reagents & colour discs.

4. If I run out of the reagents and consumables for the Potatest how easily can I obtain replacements?

Answer: Wagtech has a well established network of regional offices, dealers and agents across the world and they all stock reagents and consumables necessary for the kits. Replacements can be obtained quickly and cheaply, in-country, without the need to revert back to the head-office in the UK.

5. I work for a UK based NGO running a number of water related projects in Cambodia. I have a limited budget and I wish to purchase a portable water quality test kit.

Answer: The Wagtech Potatest is available at special pricing to Non-Governmental Organisations. It really is the cheapest resource available and ideal for rapid response type testing or simple monitoring of basic Physical, Chemical & Microbiological Parameters.

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Looking for longer term monitoring solutions & more accurate data collection?

For this type of application why not consider other products offered in Wagtech's complete range of Portable Water Quality Testing Laboratories?

The Potalab for instance, is essentially a portable laboratory in a box. Incorporating a wide range of more accurate digital meters and measuring devices it can instantly transform a remote office or room into a fully functional water testing laboratory.

For more information, or a copy of our latest catalogue visit our website www.wagtech.co.uk or email us at sales@wagtech.co.uk

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