

Wagtech™

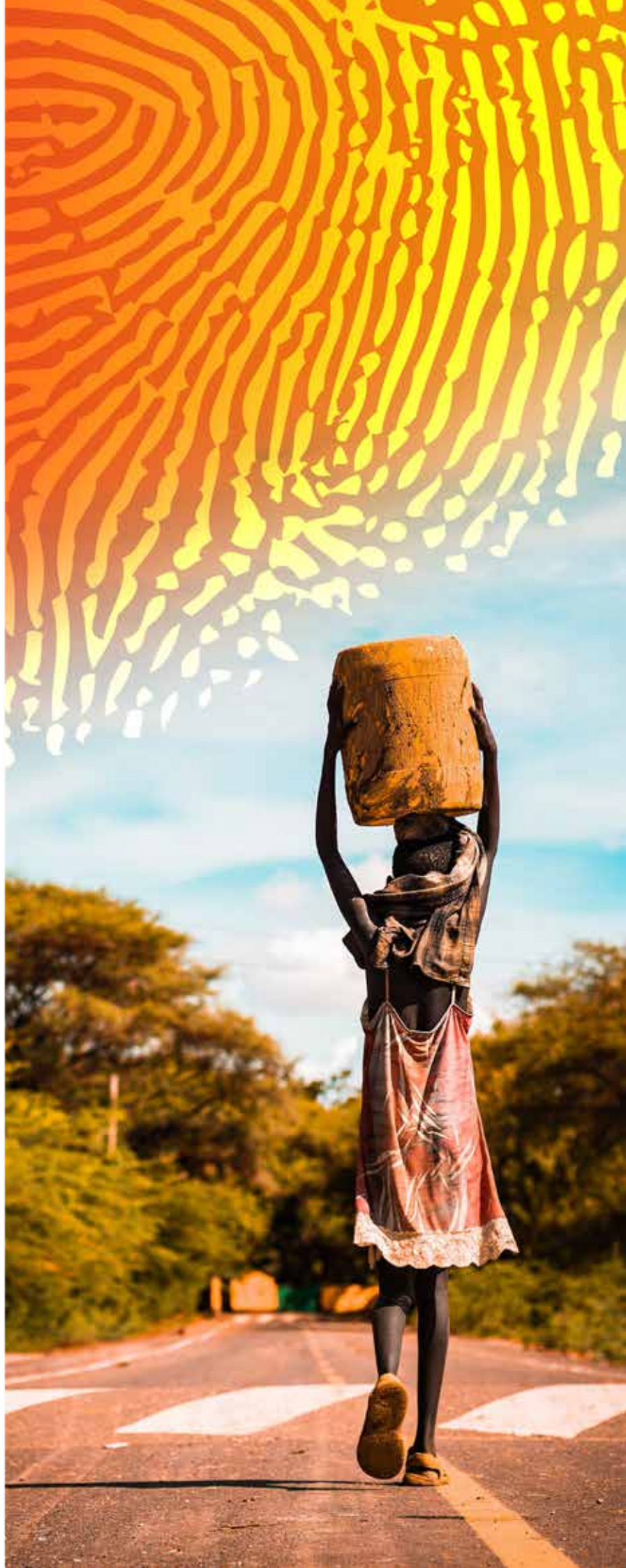
A Palintest Product

Portable water quality laboratories

Humanitarian and Wagtech products

Improving drinking water
and WASH standards for
all

www.palintest.com



Palintest

Water Analysis Technologies

Palintest are proud to be the experts in simple and accessible water analysis technologies. We have been able to transfer this knowledge to our Wagtech kits to ensure quick and simple on-site testing, anywhere in the world.



A **Halma** company

A collective of life-saving businesses growing a safer, cleaner, healthier future for everyone, every day.

Palintest has been part of the FTSE-100 Halma plc group since 1983. Halma is a global group of life-saving technology companies with a clear purpose to grow a safer, cleaner, healthier future for everyone, every day.

A long history of supporting international development agencies

Palintest has been supporting the international development sector for many years. With vast experience in global exporting, Palintest works closely with our partners to help deliver our life-saving equipment to every corner of the globe.





A global business with a local approach

In addition to our hubs in Australia, China and the United States, we have also developed a trusted distribution network who are strategically positioned to support your needs.



Palintest has been shipping life saving equipment around the world for many years. With our experienced and dedicated logistics team, we can ensure our equipment can make it to even the most remote or challenging environments.



Manufacturing in the UK since the 1800s

Originally known as Wilkinson and Simpson, Palintest has been based in the North East of England since the 1800s. Committed to quality control and exacting standards, Palintest still completes all manufacturing at our head office in Gateshead, UK.

Pioneers of simple and accessible water testing

The key breakthrough in water testing came during the 1950s as Dr Palin developed the DPD method for chlorination, making chlorine testing simple and accessible worldwide. To this day, this method continues to be the foundation of the water testing industry. To honour this work and Dr Palin's contribution, our business was renamed Palintest in 1989.



What is a Wagtech™ kit used for?

Short term emergency testing to long term water quality monitoring

We offer a range of kits to suit your requirements. Our kits can be used to test drinking water for emergency response purposes, with more advanced kits used for long term water quality monitoring.



Emergency response and disaster relief

Wagtech kits have long been used water in emergency response situations such as natural disasters



Water surveillance programs

Wagtech kits are used for water surveillance programmes to monitor water across several locations



Rural water quality monitoring

Wagtech kits are fully portable and are ideal for use in rural locations away from laboratories











































































Long term water quality monitoring

Wagtech kits can be used for precise longer-term water quality monitoring



Kit Comparison

Test Type:  Digital  Microbiological  Visual

| | Potalab+ | Potatech+ | Potacheck+ | Potakit | Potatest Dual | Potatest Classic | Potatest Go |
|---------------------------------|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |  |
| Reagents | Consumables for 200 arsenic tests Photometer reagents for 200 tests of each chemical parameter | Photometer reagents for 200 tests for each chemical parameter | Consumables for 200 arsenic tests Photometer reagents for 200 tests of each chemical parameter | Consumables for 200 arsenic tests Comparator reagents for 200 tests of each chemical parameter | | Comparator reagents for 200 tests for free and total chlorine | Comparator reagents for 200 tests for free and total chlorine |
| Parameters | PTW10010 | PTW10480 | PTW10726 | PTW10030 | PTW10020 | PTW10005 | PTW10005GO |
| Ammonia |  |  |  |  | - | - | - |
| Arsenic |  | - |  |  | - | - | - |
| Free Chlorine |  |  |  |  | |  |  |
| Total Chlorine |  |  |  |  | |  |  |
| Combined Chlorine |  |  |  | - | - |  |  |
| Conductivity |  |  |  |  | - | | - |
| Fluoride |  | | |  | | - | - |
| Nitrate |  |  |  |  | | | |
| Nitrite |  |  |  |  | | - | - |
| pH |  |  |  |  | - |  |  |
| TDS |  | |  | | - | - | - |
| Temperature |  | | |  | - | - | - |
| Thermotolerant/Faecal Coliforms |  |  | - |  |  |  |  |
| Total Coliforms |  |  | - |  |  |  |  |
| Turbidity |  |  |  | | |  |  |

Kit Size Comparison

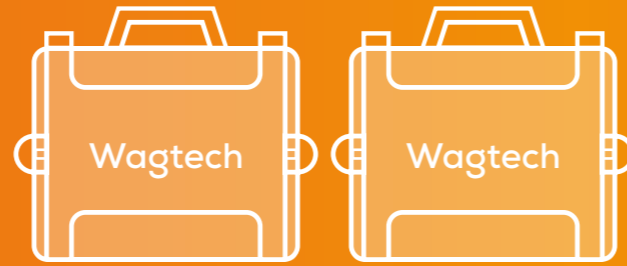


5ft 4in
165cm
average height across all people (men and women)

Potalab+ 11/12kg
PTW10010



42.8 cm (h)
x 55.5 cm (w)
x 21.1 cm (d)



Potatech+ 13kg
PTW10480



42.8 cm (h)
x 55.5 cm (w)
x 21.1 cm (d)



Potacheck 11kg
PTW10726



42.8 cm (h)
x 55.5 cm (w)
x 21.1 cm (d)



Potakit 13kg
PTW10030



42.8 cm (h)
x 55.5 cm (w)
x 21.1 cm (d)



Potatest Dual 12kg
PTW10005



42.8 cm (h)
x 55.5 cm (w)
x 21.1 cm (d)



Potatest Classic 9kg
PTW10005



36.6 cm (h)
x 46.4 cm (w)
x 21.1 cm (d)



Potatest Go 5.5kg
PTW100050GO



22.0 cm (h)
x 34.0 cm (w)
x 42.0 cm (d)



Wagtech™



Used for:

- ✓ Long term water quality monitoring
- ✓ Water supply systems or networks
- ✓ Fixed laboratory systems



Tests included:

Chemical: Ammonia, Arsenic, Free Chlorine, Total Chlorine, Fluoride, Nitrate, Nitrite

Physical: Turbidity, pH, Conductivity, TDS, Temperature

Microbiological: Thermotolerant/ Faecal Coliforms, Total Coliforms

Other parameters can be tested with additional reagents

Potalab+

PTW10010



Equipment included

All required accessories included



2 Wagtech Incubators

Dual incubators with independent temperature control for microbiological analysis.



Membrane Filtration Assembly

Equipment for membrane filtration to test thermotolerant / faecal coliforms and total coliforms.



Photometer 7500

Palintest's top of the range multiparameter photometer with Bluetooth™ connectivity.



Photometer Reagents

Reagents for 200 tests of each chemical parameter.



Turbimeter Plus and SDVB calibration standards

Rapid and reliable field testing of Turbidity.



200 Membrane Filters and pads

Used for microbiological analysis the filters and pads are supplied in sterile sealed packs.



Palintest Digital Arsenic Test System

Accurate and safe field measurements of arsenic to protect rural communities from arsenic poisoning.



Consumables

Reagents for 200 arsenic tests.



Micro 800 Multiparameter Meter

Test for pH, ORP, Conductivity, TDS, Salinity and Temperature.

Why is the Wagtech™ Potalab+ suitable for you?

The Potalab+ is the most advanced portable water quality laboratory. With complete digital instrumentation, the Potalab+ delivers laboratory levels of accuracy and is inclusive of digital arsenic testing. The kit is ideally suited to longer-term surveillance and professional monitoring in rural locations.

High capacity microbiological analysis

Dual incubators with independent temperature control for simultaneous determination of up to 40 samples for thermotolerant/faecal coliforms and total coliforms.

Advanced physico-chemical analysis

A combination of instruments and reagents allows users to analyse a wide range of physical and chemical parameters to ensure drinking water quality and assess risks against short-term and chronic health effects.

Complete data management

Download incubator data and add colony counts for a complete microbiological report. For full traceability of results transfer data from your Photometer 7500 via USB or Bluetooth, compatible with the AquaPal App and Palintest Portal.

Versatile and flexible

A fully self-contained field kit with independent power, the Wagtech™ Potalab+ offers the full range of tests for effective water quality monitoring.

Purposely designed for field water testing

Equipped with a surface for performing tests, Wagtech™ kits have been expertly designed for field testing. The kits are contained inside the signature, durable carry case, with foam inserts to protect your kit.



Product specifications available on page 42



Wagtech™



Used for:

- ✓ Water quality monitoring across multiple sites
- ✓ Water surveillance programs
- ✓ Remote monitoring of drinking water



Tests included:

Chemical: Ammonia, Free Chlorine, Total Chlorine, Nitrate, Nitrite

Physical: Turbidity, pH, Conductivity

Microbiological: Thermotolerant/ Faecal Coliforms, Total Coliforms

Other parameters can be tested with additional reagents

Potatech+

PTW10480



Why is the Wagtech™ Potatech+ suitable for you?

The kit features a complete set of digital instruments in a single portable carry case, making it ideal for water monitoring across several locations and water quality programmes. The Potatech+ is one of the only kits to offer digital testing for turbidity, ensuring accuracy and reliability.

Field microbiological analysis

The Wagtech™ microbiological incubator has been specifically designed for field use and allows you to incubate up to 20 samples simultaneously. Customise to your testing requirements with user and sample ID settings

Purposely designed for field water testing

Expertly designed for field testing, the kit is contained inside a durable carry case, with foam inserts to protect your kit.

Trusted by WASH professionals

The Potatech+ combines microbiological and physiochemical analysis to perform detailed assessment of rural water quality across multiple sites. Data can be plotted to provide an overview of water quality in an area, allowing trends to be identified.



Product specifications available on page 42



Equipment included

All required accessories included



Wagtech Incubator

Single incubator with a high sample capacity of 20 petri dishes and up to five full cycles per battery charge.



200 Membrane Filters and pads

Used for microbiological analysis, the filters and pads are supplied in sterile sealed packs.



Photometer 7100

Digital testing for a full range of parameters for effective water quality monitoring.



Photometer Reagents

Reagents for 200 tests of each chemical parameter.



Turbidimeter Plus and SDVB calibration standards

Rapid and reliable digital field testing of Turbidity.



Pocket Conductivity Sensor with conductivity calibration standard

Compact handheld meter for quick and easy field testing of conductivity.



Pocket pH Sensor and pH calibration buffers

Compact handheld meter for quick and easy field testing of pH.



Membrane Filtration Assembly

Equipment for membrane filtration to test thermotolerant / faecal coliforms and total coliforms.

Consumables and spares

For a full list of consumables and spare parts take a look at pages 45 - 46.



Did you know..

In 2011, the Palintest and Wagtech families officially joined forces as Wagtech became a brand of Palintest.

This enabled the Wagtech kits to benefit from Palintest's wider expertise in the water testing industry.

As challenges in the humanitarian and development sector have evolved, our Wagtech kits have been adapted to the growing needs of WASH sector.

What do we mean by physical analysis?

Physical analysis refers to the physical properties of water. In our kits this covers tests including pH, conductivity and turbidity.



Used for:

- ✓ Emergency response
- ✓ Remote monitoring of drinking water
- ✓ Water quality monitoring across multiple sites



Tests included:

Chemical: Ammonia, Arsenic, Free Chlorine, Total Chlorine, Fluoride, Nitrate, Nitrite

Physical: Turbidity, pH, Conductivity, TDS

Potacheck

PTW10726



Why is the Wagtech™ Potacheck suitable for you?

Designed for field use, the Wagtech™ Potacheck tests a comprehensive range of chemical and physical drinking water quality parameters. The kit uses complete digital instrumentation to provide laboratory levels of accuracy, giving you maximum confidence in your results.

Effective data management

The Photometer 7500 stores up to 500 data sets for full traceability of results. Utilise USB or Bluetooth® to connect your devices and manage data via the Aqua Pal App and Palintest Portal.

Purposely designed for field water testing

Equipped with a surface for performing tests, Wagtech™ kits have been expertly designed for field testing. The kits are contained inside the signature, durable carry case, with foam inserts to protect your kit.

Designed for physico-chemical water testing

A combination of instruments and reagents allows users to analyse a wide range of physical and chemical parameters to ensure drinking water quality and assess risks against short and chronic health effects.



Product specifications available on page 42



Equipment included

All required accessories included



Photometer 7500

Palintest's top of the range multiparameter photometer with Bluetooth™ connectivity.



Photometer Reagents

Reagents for 200 tests of each chemical parameter.



Palintest Digital Arsenic Test System

Accurate and safe field measurements of arsenic to protect rural communities from



Consumables

Reagents for 200 arsenic tests.



Turbidimeter Plus and SDVB calibration standards

Rapid and reliable field testing of Turbidity.



Micro 800 Multiparameter Meter

Test for pH, ORP, Conductivity, TDS, Salinity and Temperature simultaneously.

Wagpacs

Wagpacs are disposable water sample bags, they are ideal for collecting, transporting and testing liquids.



Used for:

- ✓ Emergency response
- ✓ Remote monitoring of drinking water
- ✓ Water quality monitoring across multiple sites



Tests included:

Chemical: Ammonia, Arsenic, Free Chlorine, Total Chlorine, Fluoride, Nitrate, Nitrite

Physical: Turbidity, pH, Conductivity, TDS, Temperature

Microbiological: Thermotolerant/ Faecal Coliforms, Total Coliforms

Other parameters can be tested with additional reagents

Potakit

PTW10030



Why is the Wagtech™ Potakit suitable for you?

Ideal for WASH professionals the Potakit+ provides visual, cost-effective testing of key drinking water quality parameters. Designed for routine water testing the kit enables water supplies to be assessed to ensure they are suitable for longer-term use.

Complete physico-chemical analysis

A combination of instruments and reagents are used to analyse a wide range of physical and chemical parameters to determine the quality of drinking water. Risks against short-term and chronic health effects can also be assessed.

Test key drinking water quality parameters

Ideal for WASH professionals looking to conduct an accurate assessment of key drinking water quality parameters in the field.

Field microbiological analysis

The Wagtech™ microbiological incubator has been specifically designed for field use and allows you to incubate up to 20 samples simultaneously. Customise to your testing requirements with user and sample ID settings.

Purposely designed for field water testing

Expertly designed for field testing, the kit is contained inside a durable carry case, with foam inserts to protect your kit.



Equipment included

All required accessories included



Wagtech Incubator

Single incubator with a high sample capacity of 20 petri dishes and up to five full cycles per battery charge.



Membrane Filtration Assembly

Equipment for membrane filtration to test thermotolerant / faecal coliforms and total coliforms.



Contour Comparator and discs

Compact and versatile, the contour comparator offers simple visual testing



Comparator Reagents

Reagents for 200 tests of each chemical parameter.



VCDK Visual Arsenic Test Kit

A simple visual test kit providing rapid arsenic test results using colour comparison.



Consumables

Reagents for 200 arsenic tests.



200 Membrane Filters and pads

Used for microbiological analysis the filters and pads are supplied in sterile sealed packs.



Pocket pH Sensor and pH calibration buffers

Compact handheld meter for quick and easy field testing of pH.



Double Length Turbidity Tube

A simple visual test designed to give a quick indication of how turbid the sample is.



Pocket Conductivity Sensor with conductivity calibration standard

Compact handheld meter for quick and easy field testing of conductivity.



Product specifications available on page 42





Why is microbiological analysis important?

Microbiological analysis determines the presence of harmful microbial pathogens which can have rapid adverse effects on health. By identifying these pathogens, such as cholera, we can isolate contaminated water sources to limit the spread of diseases and protect lives.

What are Wagtech™ kits used for?

Wagtech™ kits are used for wide range of purposes. They are used in emergency response situations for critical testing of drinking water, for testing of drinking water sources across multiple sites, or for long term monitoring of water supply networks. Contact our team for more information.



Used for:

- ✓ Emergency response
- ✓ Remote monitoring of drinking water
- ✓ Water quality monitoring across multiple sites



Tests included:

Microbiological: Thermotolerant/
Faecal Coliforms, Total Coliforms

Other parameters can be tested with
additional reagents

Potatest Dual

PTW10020



Equipment included

All required accessories included



2 Wagtech Incubators

Dual incubators with independent temperature control for microbiological analysis.



200 Membrane Filters and pads

Used for microbiological analysis the filters and pads are supplied in sterile sealed packs.



Membrane Filtration Assembly

Equipment for membrane filtration to test thermotolerant / faecal coliforms and total coliforms.



Wagtech Incubator

The Wagtech incubator has been specifically designed for field use, enabling you to perform microbiological testing, even in the most challenging environments. With a high sample capacity of 20 petri dishes, up to five full cycles per battery charge, and mains and battery power options; the incubator enables you to test large volumes of samples in the field.

Automatic timing for a standard 18 hour incubation cycle, the screen displays progress of the incubation cycle as well as the real time temperature display. With the standard incubator you can choose between two temperature settings at 37 °C and 44 °C, whilst on the Potalab incubator you can set any temperature or cycle time for increased flexibility.

The incubator also includes an optional resuscitation period, beginning with a lower temperature incubation to allow recovery of stressed bacteria.

Inclusive of printed pictorial instructions, you can also add your own voice prompt instructions to the incubator, or utilise the standard language prompts available in English, French, Spanish or Chinese (Simplified).

To further increase your incubation capacity, choose a Wagtech Potalab or Wagtech Potatest Dual which includes two incubators.

Why is the Wagtech™ Potatest Dual right for me?

Inclusive of twin incubators, the Potatest Dual is ideal for those who have a high volume of microbiological samples to process. The Wagtech™ Potatest Dual is suited to emergency response monitoring as well as rural water quality monitoring across several locations.

Test large volumes of samples in the field

Specifically designed for field use, twin digital incubators enable this kit to carry out simultaneous incubation of both thermotolerant and total coliforms. Custom incubation profiles allow the user to conduct a wider range of bacteriological parameters.

Rapidly assess water sources for suitability as drinking water

Rapid microbiological analysis for screening of faecal and total coliforms to support important decision making when selecting between drinking water sources.

Purposely designed for field water testing

Equipped with a surface for performing tests, Wagtech™ kits have been expertly designed for field testing. The kits are contained inside the signature, durable carry case, with foam inserts to protect your kit.



Product specifications
available on page 42





Used for:

- ✓ Emergency response
- ✓ Remote monitoring of drinking water



Tests included:

Chemical: Free Chlorine, Total Chlorine, Combined Chlorine

Physical: Turbidity, pH

Microbiological: Thermotolerant/ Faecal Coliforms, Total Coliforms

Other parameters can be tested with additional reagents



Why is the Wagtech™ Potatest Classic right for me?

Using visual test equipment, the Potatest Classic provides rapid onsite testing of critical drinking water quality parameters. The kit has been designed for water testing in emergency situations, such as natural disasters, and for simple water quality testing projects.

Rapidly assess water sources for suitability as drinking water

Rapid microbiological analysis for screening of faecal and total coliforms to support important decision making when selecting between drinking water sources, such as boreholes, rivers and tankered water.

Removeable Water Safety Kit

Contains instruments and visual test equipment for simple on-site testing of free, total and combined chlorine, pH and turbidity. Monitoring of these parameters can also assist in the implementation of Water Safety Plans (WSPs), which focus on identifying and eliminating risks.

Field microbiological analysis

The Wagtech™ microbiological incubator has been specifically designed for field use and allows you to incubate up to 20 samples simultaneously. Customise to your testing requirements with user and sample ID settings.

Purposely designed for field water testing

Equipped with a surface for performing tests, Wagtech™ kits have been expertly designed for field testing. The kits are contained inside the signature, durable carry case, with foam inserts to protect your kit.



Equipment included

All required accessories included



Wagtech Incubator

Single incubator with a high sample capacity of 20 petri dishes and up to five full cycles per battery charge.



200 Membrane Filters and pads

Used for microbiological analysis the filters and pads are supplied in sterile sealed packs.



Contour Comparator and discs

Compact and versatile, the contour comparator offers simple visual testing.



Comparator Reagents

Reagents for 200 tests for free chlorine and total chlorine.



Double Length Turbidity Tube

A simple visual test designed to give a quick indication of how turbid the sample is.



Membrane Filtration Assembly

Equipment for membrane filtration to test thermotolerant / faecal coliforms and total coliforms.



Pocket pH Sensor and pH calibration buffers

Compact handheld meter for quick and easy field testing of pH.



Product specifications available on page 42





Why should you test turbidity in drinking water?

Turbidity is a critical parameter for drinking water. In emergency situations it is measured to determine what type and level of treatment is needed.

Turbidity can reduce the effectiveness of disinfection treatment. Water that is very turbid will often require some type of pre-treatment to prepare it for disinfection.

Which Wagtech kit is suitable for me?

Each kit helps support a different environment so this depends on your application. Review our product pages for more guidance on what the kit is used for and what tests it performs. If you require further guidance contact us.

Wagtech™



Used for:

- ✓ Emergency response
- ✓ Remote monitoring of drinking water



Tests included:

Chemical: Free Chlorine, Total Chlorine, Combined Chlorine

Physical: Turbidity, pH

Microbiological: Thermotolerant/ Faecal Coliforms, Total Coliforms

Other parameters can be tested with additional reagents

Potatest Go

PTW100050GO



Why is the Wagtech™ Potatest Go right for me?

The kit has been designed for water testing in emergency situations, such as natural disasters. The suitability of a water source for drinking water can be rapidly assessed using microbiological analysis. The kit features an upright kit design which has been adapted for increased portability, as well as in case charging for improved security.

Easy transportation for testing across multiple sites

The upright kit design has been adapted for increased portability. Test sites can be quickly reached, and the kit is ideal for transportation between multiple sites.

Rapidly assess water sources for suitability as drinking water

Contains all the equipment required for emergency water testing to support important decision making when selecting between drinking water sources.

Field microbiological analysis

The Wagtech™ microbiological incubator has been specifically designed for field use and allows you to incubate up to 20 samples simultaneously. Customise to your testing requirements with user and sample ID settings.

Attachable Water Safety Kit (WSK)

The attachable WSK enables easy transportation between testing sites. It contains instruments and visual test equipment for simple on-site testing of free, total and combined chlorine, pH and turbidity. Monitoring of these parameters can assist in the implementation of Water Safety Plans (WSPs).



Product specifications available on page 42



Equipment included

All required accessories included



Wagtech Incubator

Single incubator with a high sample capacity of 20 petri dishes and up to five full cycles per battery charge.



200 Membrane Filters and pads

Used for microbiological analysis the filters and pads are supplied in sterile sealed packs.



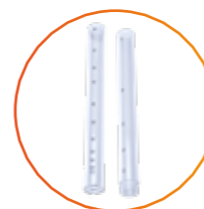
Contour Comparator and discs

Compact and versatile, the contour comparator offers simple visual testing.



Comparator Reagents

Reagents for 200 tests for free chlorine and total chlorine.



Double Length Turbidity Tube

A simple visual test designed to give a quick indication of how turbid the sample is.



Membrane Filtration Assembly

Equipment for membrane filtration to test thermotolerant / faecal coliforms and total coliforms.



Pocket pH Sensor and pH calibration buffers

Compact handheld meter for quick and easy field testing of pH.



Used for:

- ✓ Emergency response
- ✓ Remote monitoring of drinking water



Tests included:

Chemical: Free Chlorine, Total Chlorine, Combined Chlorine

Physical: Turbidity, pH

Other parameters can be tested with additional reagents

WSK

Water Safety Kit

PT100WSK



Equipment included

All required accessories included



Contour Comparator and discs

Compact and versatile, the contour comparator offers simple visual testing.



Comparator Reagents

Reagents for 200 tests for free chlorine and total chlorine.



Double Length Turbidity Tube

A simple visual test designed to give a quick indication of how turbid the sample is.



Pocket pH Sensor and pH calibration buffers

Compact handheld meter for quick and easy field testing of pH.

Why is the Water Safety Kit (WSK) right for me?

The WSK contains instruments and visual test equipment for simple on-site testing of critical drinking water quality parameters. The kit is lightweight making it ideal for transportation between multiple sites.

Easy transportation for testing across multiple sites

The WSK is self contained and lightweight making it ideal for transportation between multiple sites.

Established colorimetric methods

The contour comparator utilises the globally recognised DPD method to provide clear colour development.

Water Safety Plans

Simple and rapid monitoring of key parameters that support the implementation of Water Safety Plans.

Also available...

The Water Safety Kit is also available as part of the Potatest Go.



View consumables and spares on page 42



Other Products

Photometer 7100/7500

PTH7100/PTBH7500



Tests

- Ammonia 0 – 1 mg/L
 - Chlorine 0 – 5 mg/L
 - Fluoride 0 – 1.5 mg/L
 - Nitrate 0 – 20 mg/L
 - Nitrite 0 – 0.5 mg/L
- *additional tests can be performed



Features

- Digital testing
- Multiple tests on one instrument
- Tablet and tubetest reagents
- IP67 waterproof



Bluetooth



USB Connectivity



Digital Testing



Data Management

The Photometer 7100/7500 provides digital testing of a wide range of parameters to enable effective water quality monitoring. Digital testing improves the accuracy and precision of results. The optical systems used in photometers can detect smaller colour changes than the human eye.

Designed for on-site analysis

Palintest photometers are waterproof certified to IP67 and a robust design makes them suitable for use in the field.

Full range of tests for effective water quality monitoring

Investment in a photometer gives you long term flexibility to expand your testing parameters, with the option of adding your own tests.

Manage your data across multiple platforms

The Photometer 7500 stores up to 500 data sets for full traceability of results. Utilise USB or Bluetooth® to connect your devices and manage data via the Aqua Pal App and Palintest Portal.

Simple operation, suitable for all users

Utilising the globally recognised DPD method, Palintest photometers makes testing quick and easy.

Photometer 7500

Our top of the range photometer is inclusive of over 80 test methods.

Other Products

Turbidimeter Plus

PTH092



Tests

- Turbidity 0.01 – 1050 NTU



Features

- Digital testing for turbidity and TSS
- Unique Quadoptix technology
- Fast and reliable results
- IP67 waterproof
- USB connectivity
- Designed for field use



IP67 Waterproof



Digital Testing



No Reagents



Handheld Meter

The Turbidimeter Plus provides rapid digital testing for turbidity; one of the most important indicators for water quality.

Unique Quadoptix Technology

The Turbidimeter Plus uses two independent sources and two independent detectors to provide four autonomous measurement systems, allowing multiple validation of results for greater accuracy.

Data management with USB connectivity

The Turbidimeter Plus includes storage for 1000 results which can be transferred to a PC via USB.

Rapid results in less than 10 seconds

Get turbidity results in less than 10 seconds using normal mode. For further analysis switch to average or continuous capture modes.

Ideal for field use

With initial battery power for approximately 10,000 tests, the Turbidimeter Plus is designed for field use, coming in a portable case for easy transit. Charge your instrument via the USB.

IP67 certified waterproof

Our turbidity meter is fully waterproof, inclusive of the USB socket.



Product specifications available on page 42



Chlorometer

PTH045D



Tests

Chlorine
0 – 5 mg/L



Features

- Digital testing
- Tablet and liquid reagents
- IP67 waterproof
- Compact and durable meter



IP67
Waterproof



Digital
Testing



Tablet
and Liquid
Reagents



Handheld
Meter

Language free operation

Suitable for all users with an intuitive language-free display.

Why does chlorine need to be tested?

Water is disinfected with chlorine to prevent harmful bacteria causing illness. After treatment you need a small amount of active chlorine (known as residual chlorine) to remain in the water.

The presence of residual chlorine indicates that a sufficient amount of chlorine was added to the water and that the water is protected from further contamination.

Measure free, total and combined chlorine

Compatible with tablet and liquid reagents, the Compact Chlorometer can measure free, total and combined chlorine up to 5 mg/L

Compact and durable meter

Palintest photometers are waterproof certified to IP67. Choose the Hard Case Kit option to protect your chlorine photometer in the field.

Simple and easy to use

Utilising the globally recognised DPD method, the Compact Chlorometer makes chlorine testing quick and easy.

Arsenator – Digital Arsenic Test Kit

PT981



Tests

Arsenic
2 – 100 ppb



Features

- Digital testing
- IP67 waterproof
- 3 stage filter system



Digital
Testing



Fast
Results



Ideal for
field use



IP67
Waterproof

The Palintest Digital Arsenic Test Kit enables accurate and safe field measurements of arsenic, helping to protect rural communities from arsenic poisoning. The safety of drinking water supplies can be confirmed in 20 minutes.

Ensure safe drinking water in rural communities

The Arsenator is supplied in a comprehensive field kit, confirming the safety of drinking water supplies in 20 minutes.

3-stage filter system

The three-stage filter system has multiple benefits; increasing sensitivity of the test and removing the interference from Sulfide which can lead to inaccurate results.

Sensitivity down to 2 parts per billion (ppb)

Unlike some other parameters, Arsenic has a low guideline level of detection, with WHO guidelines at 10 ppb.



Product Specifications
available on page 42



Pooltester

SP610



Tests

PH
Chlorine



Features

Visual testing
Rapid results
Available in a range of key parameters



Colourimetric



Fast Results



Visual Testing



Tablet Reagents

Why is a pooltester SP610 used for drinking water?

Pooltesters are a rapid test for chlorine and pH, both important tests for drinking water quality. This test only takes a few seconds and means that you can make a quick assessment about whether your drinking water is safe.

Pooltesters provide simple visual testing for pH and chlorine. Quick colour development is achieved by rapid tablets which deliver the reagent quickly, without the need for crushing or handling.

Available in a range of key parameters

Combinations of chlorine, pH, Alkalinity, Bromine and more.

Quick colour development

Pooltester kits use rapid tablets to deliver the active reagent quickly, without the need for crushing or handling.

Contour Comparator

PT981



Tests

Ammonia 0 – 1 mg/L
Free chlorine 0 – 5 mg/L
Total chlorine 0 – 5 mg/L
Nitrate 0 – 15 mg/L
Nitrite 0 – 0.4 mg/L
*additional test discs can be purchased



Features

Visual testing
Test a wide range of parameters
Single and dual parameter test kits



Visual Testing



Colourimetric



Fast Results



Tablet Reagents

Compact and versatile, the contour comparator offers simple visual testing with a wide range of test options.

Easy and cost-effective testing

The contour comparator lines up the sample colour with the colour discs for an easy comparison, suitable for all users.

Established colorimetric methods

The contour comparator kit utilises the globally recognised DPD method to provide clear colour development.

Wide range of test parameters

The contour comparator has more than 40-disc options. Choose your disc options based on the tests you require. Add new test options at any point by purchasing additional discs and reagents.



View Contour Comparator consumables and spares on page 45



Other Products

VCDK – Visual Arsenic Test Kit

PTH10605



Tests

Arsenic
<10 – 500 µg/L



Features

- Visual testing
- Fast results
- Ideal for field use
- Portable case



Visual Testing



Fast Results



Ideal for field use



Portable Case

A simple visual test kit providing rapid test results, to identify arsenic water contamination in rural communities.

Rapid, visual test

The Visual Colour Detection Kit uses the same technology as the digital arsenic test kit, but with a colour comparison chart to determine arsenic concentration.

3-stage filter system

The three-stage filter system has multiple benefits; increasing sensitivity of the test and removing the interference from Sulfide which can lead to inaccurate results.

Designed for field use

Lightweight field case containing all parts, which can enable arsenic testing in communities where laboratory infrastructure is limited.



Consumables and spares available on page 45



Other Products

Turbidity Tube

WAG-WE10438



Fast Results



Visual Testing

A turbidity tube is a simple visual test, designed to give a quick and approximate indication of how turbid a sample is. The Palintest turbidity tube has graduations between 30 to 500 turbidity units.



Tests

Turbidity



Features

Visual testing

How is a turbidity tube used?

Measurement of turbidity by turbidity tube is referenced in the WHO Water Quality Handbook and the ISO7027 standard.

Holding the tube near the bottom, water is poured into the tube. Looking directly down the tube from above continue to pour sample until the defined mark (cross or circle usually) is no longer visible. Read the turbidity value from the side of the tube.



Photometer Specifications

Photometer 7500 PTBH7500

| | |
|-----------------------------|---|
| Included In | Potalab+, Potacheck |
| Instrument Type | Dual light source photometer offering direct-reading of pre-programmed test calibrations |
| Wavelengths | 450 nm, 500 nm, 550 nm, 570 nm, 600 nm, 650 nm |
| Accuracy | ±1.0% |
| User Interface | On-screen prompts in English, French, Spanish, German, Italian, Turkish and Chinese (Simplified). |
| Size (W x L x H) and weight | 150 x 250 x 70 mm, 975 g |
| Power Supply | 3 x 1.5v 'AA' batteries (typically 40 hours), mains power via USB port |
| Connectivity | Palintest Bluetooth® (4.0) profile and USB for data download |
| User Defined Methods | Up to 30 additional methods |
| Memory Capacity | Up to 500 data sets. |

Photometer 7100 PTH7100

| | |
|-----------------------------|--|
| Included In | Potatch+ |
| Instrument Type | Dual light source photometer offering direct-reading of pre-programmed test calibrationsw |
| Wavelengths | 450 nm, 500 nm, 550 nm, 570 nm, 600 nm, 650 nm |
| Accuracy | ±1.0% T |
| User Interface | On screen prompts available in English, French, Spanish, Italian, German and Chinese (Simplified). |
| Size (W x L x H) and weight | 150 x 250 x 70 mm, 975 g |
| Power Supply | 3 x 1.5v 'AA' batteries (typically 40 hours) |
| Memory Capacity | Up to 500 data sets. |

Turbimeter Plus PTH092

| | |
|---------------------------|--|
| Included In | Potalab+, Potatch+, Potacheck |
| Optical System | QuadoptiX™ optical system with two independent 860nm LED sources, ISO 7027 Compliant |
| Instrument Range | 0.01 – 1050 NTU |
| User Interface | Soft key access with English, French and Spanish |
| Result Units | NTU, FNU, FTU, mg/L (TSS mode) |
| Modes | Turbidity (normal, average, continuous capture), Total Suspended Solids |
| Data Storage | 1000 results including date, time, sample ID, operator ID and mode. |
| Size (W x L x H) & Weight | 82 x 225 x 50mm, 340 g |
| Power Supply | 2 x AA batteries or via USB |

Palintest Digital Arsenic Test System PT981

| | |
|---------------------------|--------------------------|
| Included In | Potalab+, Potacheck |
| Measuring System | Colorimeter |
| Range 2 | 100 ppb - (µg/L As) |
| Reaction time | 20 minutes |
| Size (W x L x H) & Weight | 390 x 330 x 95 mm, 1.75g |

Electrochemical Meters Specifications

Micro 800 Multiparameter Meter PT1350

| | Range | Resolution | Accuracy |
|------------------------|-------------------------------------|---|---|
| pH | -2.00 – 16.00 | 0.01 | ±0.01 |
| Conductivity | 0 to 200,000 µS/cm 0 – 200 mS/cm | 0.01 (0 to 99.99 µS/cm) 0.01 (1.00 – 99.99 mS/cm) 0.1 (100.0 – 200.0 mS/cm) | ±1% of full scale or ±1µS/cm, whichever is greater |
| Total Dissolved Solids | 0 – 200,000 mg/L 0 – 200 ppt | 0.01 (0 – 99.99 mg/L) 0.1 (100.0 – 200.0 ppt) | ±1% of full scale or ±1 mg/L, whichever is greater |
| Temperature | -10 to +110°C | 0.1°C | ±0.5°C |

Pocket pH Sensor PT155

| Included In | Potatch+, Potakit, Potatest Classic, Potatest Go, Wagtech WSK | | |
|-------------|---|------------|----------|
| | Range | Resolution | Accuracy |
| pH | 0.00 – 15.0 | 0.01 | ±0.01 |
| Temperature | 0.0 to 50°C | 0.01°C | ±0.5°C |

Pocket Conductivity Sensor PT157

| Included In | Potatch+, Potakit | | |
|--------------|---|---|---|
| | Range | Resolution | Accuracy |
| Conductivity | 0 – 20,000 µS/cm 0 – 20 mS/cm (Auto-ranging) | 0.1 (0.0 to 199.9 µS/cm) 1 (200 to 1999 µS/cm) 0.01 (2.00 to 20.00 mS/cm) | ±1% of full scale or ±1µS/cm, whichever is greater |
| pH | 0.00 – 15.00 | 0.01 | ±0.01 |

Incubator Specifications

Wagtech Incubator PT1005

| | |
|-----------------------|---|
| Included In | Potalab+ , Potatch+, Potakit, Potatest Dual, Potatest Classic, Potatest Go |
| Test Protocols | 37°C and 44°C temperature selections, user selectable time profiles, automatic resuscitation period profile |
| Temperature Stability | ±0.1°C |
| Temperature Control | Laser-trimmed thermistor pair with automatic temperature validation |
| User Interface | On screen and audible prompts (incubator only) in English, French, Spanish and Chinese (Simplified) |
| Data Log | Last five incubation cycles performance report |
| Connectivity | Micro-USB connection to Windows and Android devices for data download and audible prompt upload via dedicated App |
| Size & Weight | 110 x 123 x 145 mm, 690g |
| Power Supply | Replaceable lead acid battery with mains, vehicle and external charging options |
| Power Consumption | High thermal efficiency heating system, 5 full cycles from a fully charged battery |
| Included In | Potalab+ , Potatch+, Potakit, Potatest Dual, Potatest Classic, Potatest Go |

Microbiological Consumables and Spares

| Code | Product | Kit |
|----------|---|--|
| PTW10450 | Coliform Starter Pack | Potalab+, Potatech+, Potakit, Potatest Dual, Potatest Classic, Potatest Go |
| PTW10454 | Membrane Lauryl Sulphate Broth, 38.1g | |
| PTW10459 | Membrane Filters, 200 pack | |
| PTW10460 | Absorbent Pads & Membranes, 200 pack | |
| PT1005 | Wagtech Incubator | |
| PT1010 | Wagtech Potalab Incubator | |
| PTW10400 | Membrane Filtration Unit | |
| PTW10401 | Pistol Grip Hand Vacuum Pump | |
| PTW10402 | Bronze Disk | |
| PTW10403 | Silicone tubing for MFU | |
| PTW10404 | Sampling Cup | |
| PTW10405 | MFU/silicone tubing connector | |
| PTW10420 | Aluminium Petri Dishes, 20 | |
| PTW10464 | Absorbent Pad Dispenser | |
| PTW10428 | WagPac Disposable Water Sample Bags | |
| PTW10427 | Pistol Grip Hand Vacuum Pump plus silicone tubing | |
| PTW10425 | Replacement battery for Wagtech Incubator | |
| PTW10424 | Replacement battery for Wagtech Potalab Incubator | Potalab+ |
| PTW10051 | Potaflex Heavy Duty Incubator | Potalab+, Potatech+, Potakit, Potatest Dual, Potatest Classic, Potatest Go |

Photometer Consumables and Spares

| Code | Product | Kit |
|---------|---------------------------------------|--------------------------------|
| AP031 | Free and Total Chlorine (DPD 1 and 3) | Potalab+, Potatech+, Potacheck |
| AP109 | Nitrite (Nitricol) | Potalab+, Potatech+, Potacheck |
| AP152 | Ammonia | Potalab+, Potatech+, Potacheck |
| AP163 | Nitrate (Nitratetest) | Potalab+, Potatech+, Potacheck |
| AP179 | Fluoride | Potalab+, Potatech+, Potacheck |
| PT595/5 | Photometer Sample Tubes (x5) | Potalab+, Potatech+, Potacheck |
| PT804 | Photometer 7100/7500 Check Standards | Potalab+, Potatech+ Potacheck |

Contour Comparator Consumables and Spares

| Code | Product | Kit |
|---------|--|--|
| AK031 | Free and Total Chlorine (DPD 1 and 3) | Potakit, Potatest Classic, Potatest Go, Water Safety Kit |
| AK109 | Nitrite (Nitricol) | |
| AK152 | Ammonia | |
| AK163 | Nitrate (Nitratetest) | |
| AK179 | Fluoride | |
| CKD1001 | Contour Comparator disk, Free and Total Chlorine | |
| CKD1152 | Contour Comparator disk, Ammonia | |
| CKD1163 | Contour Comparator disk, Nitrate (Nitratetest) | |
| CKD1109 | Contour Comparator disk, Nitrite (Nitricol) | |
| CKD1179 | Contour Comparator disk, Fluoride | |
| PT521/5 | Comparator Sample Tubes (x5) | |

pH and Conductivity Calibration Solutions

| Code | Product | Kit |
|---------|---|--|
| PT142/2 | High Range Conductivity Solution, 500mL | Potalab+, Potatech+, Potacheck, Potakit |
| PT142/3 | Mid Range Conductivity Solution, 500mL | |
| PT105/1 | pH 4 Buffer Solution, 500mL | Potalab+, Potatech+, Potakit, Potatest Dual, Potatest Classic, Potatest Go, Water Safety Kit |
| PT105/2 | pH 10 Buffer Solution, 500mL | |
| PT105/3 | pH 7 Buffer, 500mL | |

Turbidimeter Plus Consumables and Spares

| Code | Product | Kit |
|--------|-----------------------------------|--------------------------------|
| PTC092 | Turbidimeter Plus Calibration Set | Potalab+, Potatech+, Potacheck |
| PT120 | Silicone Oil | Potalab+, Potatech+, Potacheck |
| PT555 | Sample Tubes (x5) | Potalab+, Potatech+, Potacheck |

Digital Arsenic Test Kit and VCDK Consumables and Spares

| Code | Product | Kit |
|--------|------------------------------------|----------|
| PT1003 | Arsenator/VCDK Reagent Refill Pack | Potalab+ |

Wagtech

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