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	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	PTW100050GO
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+
PTW10010 — 11/12kg

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

Potatech+
PTW10480 — 13kg

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

Potacheck
PTW10726 — 11kg

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

Potakit
PTW10030 — 13kg

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

Potatest Dual
PTW10005 — 12kg

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

Potatest Classic
PTW10005 — 9kg

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

Potatest Go
PTW100050GO — 5.5kg

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

Wagtech™

Potalab+

PTW10010

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

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 Lumiso Expert via USB or QR code.

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

Equipment included

All required accessories included

2 Wagtech Incubators

Dual incubators with independent temperature control for microbiological analysis.

Lumiso Expert

A robust multiparameter photometer with an extensive range of testing parameters.

Turbimeter Plus
and SDVB calibration standards

Rapid and reliable field testing of Turbidity.

Palintest Digital Arsenic Test System

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

Micro 800 Multiparameter Meter

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

Membrane Filtration Assembly

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

Photometer Reagents

Reagents for 200 tests of each chemical parameter.

200 Membrane Filters
and pads

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

Consumables

Reagents for 200 arsenic tests.

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

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

Wagtech Incubator

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

200 Membrane Filters
and pads

A robust multiparameter photometer with an extensive range of testing parameters.

Lumiso Expert

Reagents for 200 tests of each chemical parameter.

Photometer Reagents

Rapid and reliable digital field testing of Turbidity.

Turbimeter Plus
and SDVB calibration standards

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

Pocket Conductivity Sensor
with conductivity calibration standard

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

Pocket pH Sensor
and pH calibration buffers

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

Membrane Filtration Assembly

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.

Wagtech™ Potacheck

PTW10726

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

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 Lumiso Expert stores up to 1000 data sets for full traceability of results. Utilise USB or QR code to access and manage data via Palintest Connect.

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

Lumiso Expert

A robust multiparameter photometer with an extensive range of testing parameters.

Consumables

Reagents for 200 arsenic tests.

Palintest Digital Arsenic Test System

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

Micro 800 Multiparameter Meter

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

Turbimeter Plus
and SDVB calibration standards

Rapid and reliable field testing of Turbidity.

Wagpacs

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

Wagtech™ Potakit

PTW10030

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

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.

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.

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.

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.

Wagtech™

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

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

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.

Wagtech™

Potatest Classic

PTW10005

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.

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

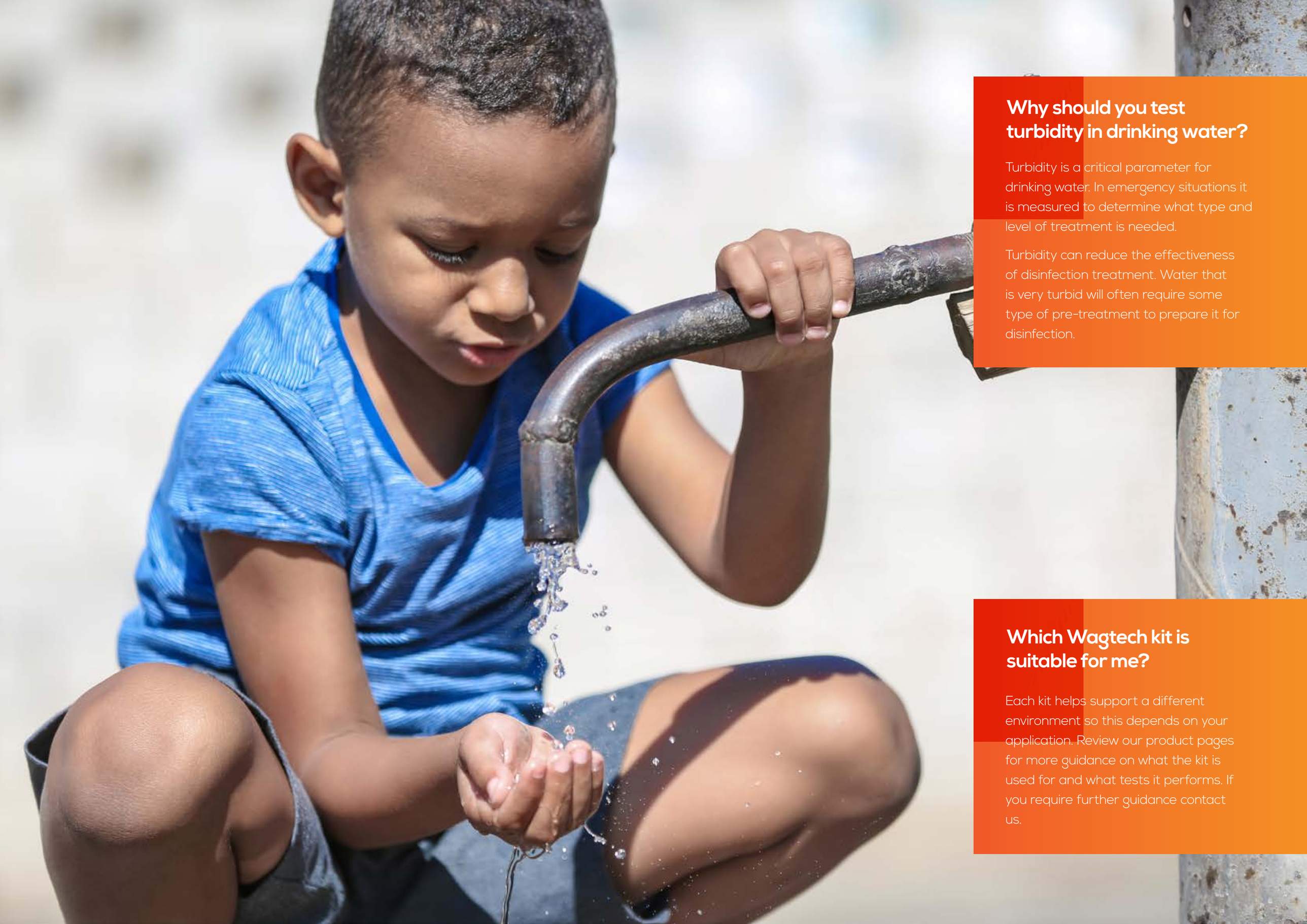
A simple visual test designed to give a quick indication of how turbid the sample is.

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.



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™

Potatest Go

PTW100050GO

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 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 incase 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.

Contour Comparator
and discs

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

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.

200 Membrane Filters
and pads

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

Comparator Reagents

Reagents for 200 tests for free chlorine and total chlorine.

Membrane Filtration Assembly

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

Wagtech™ WSK

Water Safety Kit

PT100WSK

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

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 make 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 paramters 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 ›

Lumiso Expert

LUM7210

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

IP67 Waterproof

Digital Testing

Data Management

Lumiso Expert is a robust multiparameter photometer with an extensive range of testing parameters. For users operating in water management industries, such as drinking water, who need to perform water analysis testing in-situ or in laboratory environments, across frequent and less frequently used parameters.

With an intuitive and accessible touchscreen navigation, which also works with wet and gloved hands, and simple to follow onscreen instructions, the Lumiso Expert can be used with little to no prior training. Its robust IP67 waterproof design and construction ensures it can be used in-situ in any environment. Lumiso Expert also benefits from easy results retrieval and data traceability for audit and compliance purposes.

Robust construction
Lumiso Expert is impact tested to IK08 as part of EN61010 and has a scratch and chemical resistant coating.

Data logging
Results are saved automatically, including test data, user, labels, and notes for audit and compliance.

Data retrieval
Users have easy access to data via our cloud-based data management software Palintest Connect.

Recycled Materials
The case of our Lumiso Expert is made with recycled plastic.

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

Unique Quadoptix Technology
The Turbimeter 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 Turbimeter 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 Turbimeter 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

Lumiso Chlorine

LUM051

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

Lumiso Chlorine can test the following parameters:
Chlorine (free and total) 0-5 mg/L
Chlorine High Range (total) 0-250 mg/L
*Reagents to be purchased separately

Lightweight kit, designed with a reusable water-resistant reagent box for convenient storage and space for spare test tubes and Check Standards.

USB connectivity to enable data management and compliance with live date and time stamping.

Easy to operate with a large display and quick delivery of accurate results.

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.

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

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 you 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

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

Turbidity Tube

WAG-WE10438

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.

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.

Photometer Specifications

Lumiso Expert LUM7210

Included In	Potalab+, Potatech+, Potacheck
Instrument Type	Multiparameter Photometer
Wavelengths	430 nm, 465 nm, 530 nm, 575 nm, 620 nm
Accuracy	+/-1%T
User Interface	PCAP touch panel
Size (W x L x H) and weight	211mm x 195mm x 52mm, 850g
Power Supply	6 x AA 1.5V Batteries or Standalone USB
Connectivity	Via Windows App (USB) or Mobile App (QR code)
Memory Capacity	Access 1,000 results via device's screen

Turbimeter Plus PTH092

Included In	Potalab+, Potatech+, 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

Included In Potalab+, Potacheck

	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 Potatech+, 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 0.1°C	±0.5°C

Pocket Conductivity Sensor PT157

Included In Potatech+, 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 0.1	±0.01

Incubator Specifications

Wagtech Incubator PT1005

Included In	Potalab+ , Potatech+, 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

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	Potatech+, Potakit, Potatest Dual, Potatest Classic, Potatest Go
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 (Nitratest)	Potalab+, Potatech+, Potacheck
AP179	Fluoride	Potalab+, Potatech+, Potacheck
PT555	Photometer Sample Tubes (x5)	Potalab+, Potatech+, Potacheck
LMCEXP	Lumiso Expert 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 (Nitratest)	
AK179	Fluoride	
CKD1001	Contour Comparator disk, Free and Total Chlorine	
CKD1152	Contour Comparator disk, Ammonia	
CKD1163	Contour Comparator disk, Nitrate (Nitratest)	
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	

Turbimeter Plus Consumables and Spares

Code	Product	Kit
PTC092	Turbimeter 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+

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