

Water Testing

Portable Water Laboratory, Paqualab® 50

A portable testing system for monitoring key drinking water parameters on-site, even in remote areas.

- ◆ Meets WHO and EC guideline requirements
- ◆ Provides microbiological, chemical and physical testing facilities

Microbiological testing

Paqualab® 50 provides the facility to indicate harmful bacteria and virus presence using membrane filtration and incubation of faecal and total coliforms. A manual vacuum filtration unit allow a measured sample to be drawn through a sterile gridded membrane filter and then applied to an absorbent pad which has been pre-soaked in membrane lauryl sulphate medium and held within a reusable aluminium petri dish. The sample pad is then incubated in a portable incubator compartment. Up to 50 dishes can be simultaneously incubated in two separate compartments at +37°C or +44°C depending on method (chambers are individually switchable). Components and consumables for up to 200 tests in total are included.

Chemical and Physical testing

Instruments and apparatus are provided enabling measurement of pH, temperature, conductivity, TDS, turbidity and photometric testing of chlorine, ammonia, nitrates and nitrites.

Portable Water Laboratory Paqualab® 50

As described. With manual filtration unit, separate incubators with +37°C or +44°C setting and "heat" indicator LED. Also included are pH/C, conductivity/TDS and turbidity meters, a photometer with reagents for testing chlorine, ammonia, nitrates and nitrites, and necessary equipment and consumables/reagents to conduct up to 50 microbiological tests simultaneously (200 total), all contained in a rugged aluminium case. Overall 810 x 620 x 800mm W x D x H. Weight 30kg. the incubators require a 110-240V 50/60Hz single phase supply or can be run from a 12V vehicle battery using the cigar lighter plug or crocodile clip attachments provided. A rechargeable battery is also included for temporary field operation of the incubators.

WSS10-25 Paqualab® 50

Spares and accessories

- WSS13-04** Lauryl sulphate medium, pack 38.1g for 200 coliform tests
- WSS13-06** Slanetz and Bartley medium, pack 100g for 200 faecal streptococci tests
- WSS13-08** Absorbent pads and membranes only, pack of 200
- WSS13-15** Coliform starter pack, membranes, pads and medium for 200 tests
- WSS13-20** Faecal streptococci starter pack, membranes, pads and medium for 200 tests
- WSS13-30** Aluminium petri dishes, pack of 25



WSS10-25

Test Strips

Single or multiple parameter test strips especially formulated for water quality measurement. The unique design incorporates an aperture within the test strip that holds an indicator-treated membrane ensuring complete immersion in the test sample. Colour intensity is directly proportional to concentration of the test parameter in the sample.

- ◆ Rapid response
- ◆ Low cost per test
- ◆ Safe to use and transport
- ◆ Excellent reproducibility

As described. Supplied in bottle packs of strips with ranges as indicated and colour comparison key label.

	Parameter(s)	Method: Range/increments, mg/l (except pH)	Pack qty.
Single parameter			
WSS50-10	Free chlorine	A: 0, 1, 2, 3, 4, 5, 6, 7 B: 0, 0.05, 0.1, 0.2, 0.4, 0.6, 0.8, 1.2	50
WSS50-15	High free chlorine	0, 1, 2, 5, 10, 20, 40, 80, 120	50
WSS50-20	Total chlorine	A: 0, 0.1, 0.2, 0.5, 0.8, 4, 10 B: 0, 0.05, 0.1, 0.15, 0.2, 0.5, 1	50
WSS50-25	Iodine	A: 0, 0.5, 1, 2, 3, 4, 5 B: 0, 0.02, 0.05, 0.1, 0.2, 0.3, 0.4	50
WSS50-34	Iron (Fe ₂ /Fe ₃)	0, 0.02, 0.05, 0.1, 0.2, 0.3, 0.5, 0.75, 1, 2, 5	25
WSS50-35	Copper (Cu/Cu ₂)	0, 0.5, 1, 2.5, 5	25
WSS50-40	Peroxide (H ₂ O ₂)	0, 0.5, 2, 5, 10, 25, 50, 100	50
WSS50-60	Total Hardness (Ca)	0, 40, 80, 120, 180, 250, 425, 1000	50
Multiple parameter			
WSS60-15	Free chlorine Total chlorine	0, 0.1, 0.2, 0.5, 1, 2.5, 5 0, 0.1, 0.2, 0.5, 1, 2.5, 5	30
WSS60-25	Nitrate Nitrite	0, 0.5, 2, 5, 10, 20, 50 0, 0.15, 0.3, 1, 1.5, 3, 10	50
WSS60-30	pH Total alkalinity	6, 6.5, 7, 7.5, 8.0, 8.5, 11 0, 40, 80, 120, 180, 240, 720	50
WSS60-44	pH Total Alkalinity Total Hardness (Ca) Free & Total chlorine	6, 6.5, 7, 7.5, 8, 8.5, 9 0, 40, 80, 120, 240, 360 0, 50, 120, 180, 250, 425 0, 0.1, 0.2, 0.5, 1, 2.5, 5	50



WSS50, WSS60