

Emergency Aid Camp Infrastructure

Water Testing Equipment

Butyl Products Ltd. provide water testing equipment for raw water, to determine the treatment required, and also for testing treated water to establish that it is suitable for drinking and fully meets the world Health Organisation (WHO) standards.

Testing parameters

Standard kits cater for the 6 basic parameters of water quality as set by the World Health Organisation and recognised globally. These are:

- pH
- Free Chlorine
- Total Chlorine
- Turbidity
- Microbial Quality (specifically Faecal Coliform count)
- Temperature

It is also possible to expand these parameters significantly to cater for the specific needs of a geographical region or for local legislation. For example the addition of conductivity or testing for specific ions (iron, manganese, copper) can be easily accommodated with the addition of special test meters and / or comparators.



Left: DelAgua's James Beaumont demonstrates the use of their Water Testing Kit



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The **DeLagua Basic Singular Incubator Kit** complete with the accessories listed below comprises a fully integrated, rechargeable lead acetate battery housed with a single, calibration capable incubation chamber set to incubate at 44°C, to isolate thermotolerant coliforms. These components are fully sealed in a NATO standard, vented slimline case, balanced around the handle. It weighs a very portable 10kg.



Basic Single Incubator Kit

The DeLagua Dual Incubator Kit

The dual kit shares the same casing as the basic kit, and comes with all accessories listed below. However, the Dual kit has a separate battery system with equally robust casing plus connecting cables, to make way for a second incubation chamber capable of operating at 44°C for double capacity, or at 37°C to give total coliform count within the same testing run as the faecal count. The weight of the kit is 8.75kg with the battery an additional 10kg.



Dual Incubator Kit

The DeLagua Lightweight Incubator Kit

As the name suggests, the lightweight kit weighs just 6kg. It offers all the features of the basic single incubator kit but does not offer a battery system. As such, the lightweight kit requires a separate power source such as a car battery or mains electrical supply. This kit is suitable for testing in a laboratory or where vehicle access and availability or car-sourced power is not compromised.



Inside the Single & Double Incubator

Each kit comes with the following accessories as standard

- Filtration apparatus
- Spare filtration disc and 'o' rings
- Vacuum pump
- Sample cup with detachable cable lanyard
- 3 sets of 16 reusable aluminium petri dishes with strap housing
- DC power adaptor (110 to 240 v) including additional connectors to power the unit from a car battery
- Digital timer
- Comparator (Chlorine & pH)
- Forceps for membrane manipulation
- 10 x Polypropylene media bottles
- Methanol dropper bottle (empty)
- Hand lens for colony counting
- Lubrication grease for vacuum integrity
- Large spirit thermometer (-10°C to 50°C)
- Trimmer tool & mini screwdriver for calibration
- Turbidity tube to measure 5 to 2000NTU
- Instruction manual in English
- Instructional CD Rom with sectional methods in video format
- Consumables for 200 tests (also available separately):
 - 200x membrane filter
 - 200 x absorbent pads
 - Pad dispenser
 - Culture medium 38.1g tub
 - 250 x DPD no. 1 tablets
 - 250 x DPD no. 3 tablets
 - 250 x Phenol Red tablets



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