



GERTHOLD

Crocodile

SINGLE PLATE ELISA WALKAWAY AUTOMATION

The Crocodile miniWorkstation



SMALL FOOTPRINT. RELIABLE RESULTS. CONVENIENT ELISA AUTOMATION.

Automated unattended operation for low to medium throughput



Running your ELISA assays without automation requires an hour or more of your attention, making it difficult to plan other important activities while your assay is being processed.

The Crocodile 5-in-one miniWorkstation provides complete ELISA automation in a footprint similar to a standalone-reader, while ensuring reliable results.

Using the Crocodile will reduce assay times by eliminating the need to move plates between dispenser, washer, incubator, shaker and reader. Free-up precious time to perform other important activities.



Figure 1: 8 well parallel washer, providing consistent washing performance

Crocodile benefits at a glance

- All-in-one ELISA automation: Truly unattended operation – simply insert a microplate including samples and standards, choose the assay protocol and leave the work to the Crocodile.
- **Ultra-compact footprint:** With its compact width of only 26.5 cm, the system fits into any laboratory environment.
- Plug & play setup: The system is preinstalled and ready to start within minutes.
- Open system software: The user-friendly software easily adapts to any 96 well assay.
- Wavelength flexibility: In addition to the preinstalled filters for ELISA (405, 450, 492 and 620 nm), 4 positions are available for custom filters.
- Robust design: The Crocodile is very robust due to the small number of moving parts.
- Simple maintenance: Maintenance is also really simple: flushing of the system and routine replacement of the tubing is made easy by the intuitive design of the Crocodile.
- Easy validation: Installation Qualification, Operation Qualification and Performance Qualification steps are performed according to detailed instructions provided (optional 3Q package).

ALL-IN-ONE ASSAY AUTOMATION

Requires the footprint of a reader. Offers the functionality of up to 5 different instruments

The Crocodile 5-in-one miniWorkstation provides the same functionality as five individual instruments in a footprint similar to a stand-alone-reader.

- 1. Dispenser
- 2. Shaker
- 3. Incubator
- 4. Washer
- 5. Reader (5-in-one version only)



TOTAL FLEXIBILITY. MAXIMUM PRODUCTIVITY.

Intuitive, easy-to-use software

| Assay Setup | | × | | | | | | | | | | | | | | |
|---------------------------------------|--------------------------------------|---|-------------|----------|----------|--------|----------|----|---|---|---|---|----|----|---------------|---|
| IgG ELISA | ~ Selected | Washer Dispenser Inlet Label |) As | isay Set | up - Di: | spense | er | - | - | | - | - | - | - | - | × |
| List of Available Steps | | List of Selected Steps | Reage | nt: | Conj | ugate | (Inlet 2 | 0 | | | | | ~ | | ок | |
| Incubate Shake Wash Dispense | Add Step Delete Step Copy Step | Incubation 37°C 1h Wash Dispense conjugate Incubation Rt 30min Wash? | Volum | ne | 100 | | • | ul | | | | | | | Cancel | |
| Measure Manual | Edit Name Edit Step | Wesh2 Dispense Substrate Inkubation Rt 15min Dispense Stop Measure 450 nm | A B C | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | e Order 12 | |
| | Move Up Move Down | | DE | | | | | | | | | | | | | |
| Step Parameter | | | F | _ | | | | | | | - | - | | | | |
| Dispensing Volume 100ul Infe | et 2 Label "Co | njugate " | H | | | | | | | | | | | | | |
| | ОК | | | | | | | | | | | | | | | |

Figure 2: Intuitive and flexible operation. The Crocodile software adapts easily to both, commercial and custom assay protocols.

The user-friendly software easily adapts to any 96 well assay protocol. The five different instrument functions can be combined in any sequence, one or several times each (for example one to four dispensing steps or multiple washing steps). Setting of each step is flexible and intuitive.

Once you have chosen an assay protocol, the screen will show a graphic of the entire assay schedule, as it will be performed by the Crocodile.

The optional MikroWin software is available when quantitative and qualitative data analysis is needed.



TECHNICAL SPECIFICATIONS

| General General | Sample format | 1 × 96 well microplate (ANSI SLAS) | | | | | |
|--------------------|------------------------|--|--|--|--|--|--|
| pecifications | Dimensions (H × W × D) | 25.8 × 26.3 × 62.6 cm / 10.2 × 10.4 × 24.6 inch | | | | | |
| | Weight | 14.8 kg / 32.6 lbs (5-in-one): 13.9 kg / 30.6 lbs (4-in-one) | | | | | |
| | Interface | USB interface | | | | | |
| | Power Requirements | Desktop power supply and power cord. 100 – 240 V AC; 24 V DC / 3.3 A | | | | | |
| | Operating Temperature | 10 – 35 °C; 50 – 95 °F | | | | | |
| | Humidity | Up to 75 % (non condensing) | | | | | |
| ncubator | Temperature Range | From ambient +4 °C to 55 °C | | | | | |
| | Temperature Stability | ±1 °C across plate at 37 °C | | | | | |
| | Incubation Time | Programmable | | | | | |
| | Temperature Monitoring | Yes | | | | | |
| Reader | Dynamic Range | 0 – 3.0 OD at 450 nm | | | | | |
| (5-in-one version) | Spectral Range | 400 – 690 nm (pre-installed filters: 405, 450, 492, 620 nm) | | | | | |
| | Filter Slots | 8 | | | | | |
| | Reading Channels | 8 independent photometric channels plus reference channel, mono and bichromatic reading | | | | | |
| | Precision | <1.5 % CV (0.01 to 0.5 OD) <1 % CV (0.5 to 2.0 OD) <1.5 % CV (2.0 to 3.0 OD) | | | | | |
| | Accuracy | ±0.01 OD or 2.5 %, (whichever is greater) | | | | | |
| Dispenser | Туре | 4 independent precision pumps | | | | | |
| | Volume Range | 10 – 2000 μl | | | | | |
| | Precision | <2 % CV at 100 µl | | | | | |
| | Accuracy | <5 % at 100 µl | | | | | |
| | Reagent Support | Any bottle or vial type can be attached | | | | | |
| Washer | Manifold Configuration | Autoclavable 8 way manifold with 2 parallel needles | | | | | |
| | Dispense Volume | 25 – 1000 μl | | | | | |
| | Wash Modes | Standard, overflow, soak, two-point, sweep | | | | | |
| | Wash Buffer Capacity | 3 × 1 l bottles for different wash solutions | | | | | |
| | Waste Liquid Container | 2 l bottle | | | | | |
| ihaker | Shaking | Independent linear motion 5 – 20 Hz | | | | | |
| PC Software | PC Software | Crocodile Control Software for Windows allows creating and measuring assay protocols | | | | | |
| Ordering Infos | 84024-01 | LB 925 Crocodile miniWorkstation 5-in-one incl. Crocodile Control Software licence | | | | | |
| | 84024-02 | LB 925 Crocodile miniWorkstation 4-in-one incl. Crocodile Control Software licence | | | | | |
| | 37854-303 | MikroWin 2010 Advanced (Curvefit, Kinetic, Scanning, Controls, Threshold, User Access, Audit Trail, Automation) | | | | | |
| | 37854-304 | MikroWin 2010 Lite (Curvefit, Kinetic, Scanning, Controls, Threshold, max. 5 calc. matrices) | | | | | |
| | 67950 | Crocodile Control PC-Software (CCS) (additional licence) | | | | | |
| | 84078 | IQ/OQ/PQ Qualification Package for Crocodile miniWorkstation | | | | | |
| | 84083 | Absorbance Test-plate for validation of 96 well microplate absorbance readers | | | | | |

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