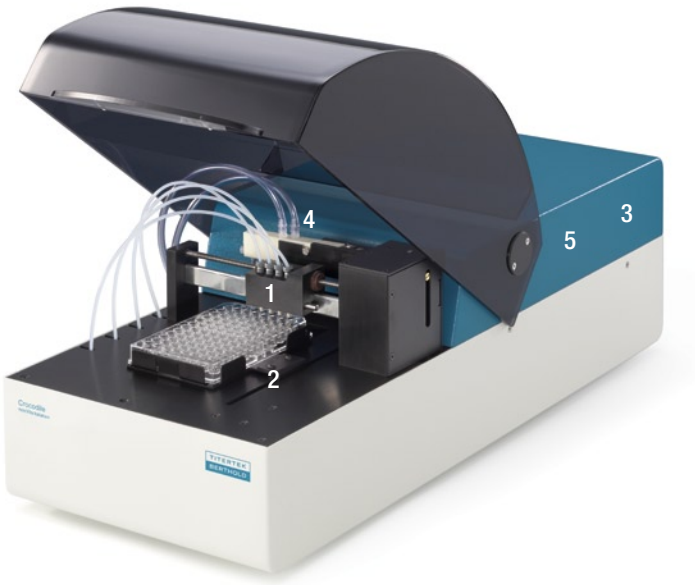
TITERTEK BERTHOLD

Crocodile miniWorkstation

Your personal ELISA automation

Crocodile is a compact, fully automated, high performance ELISA workstation for low to medium throughput



Under normal circumstances, running your ELISA assays required an hour and more of your attention, making it difficult to plan other important activities while your assay was in process.

Crocodile provides the same functionality as *five individual instruments* in a footprint similar to a standard stand-alone-reader. The use of Crocodile will reduce assay times by eliminating the need to move plates between dispenser, washer, incubator, shaker and reader. This allows you to perform other important activities and be even more productive.

1 Dispenser
2 Shaker
3 Incubator
4 Washer
5 Reader

A compact workstation that fits anywhere
Crocodile is only 26.5 cm wide. With all reagent bottles placed to the left of the instrument, it requires no more than 40 cm of bench space – the width of a typical ELISA reader.

Walk away automation
The workstation is designed for truly unattended operation. Simply insert the sample microplate which includes standards and samples, choose the assay protocol and leave the work to Crocodile.

Easy hardware setup
All functional modules are housed in one compact box. Simply connect the unit with the power outlet and a notebook or desktop computer and you are all set up for analysis. The tubing for wash and waste liquids is preinstalled, ready to be introduced into the wash and waste bottles.

Fast start
In everyday use, preparing to use Crocodile won´t give you any headaches. Wash, waste, and reagent bottles are readily accessible, right next to the instrument. The instrument is ready for startup within minutes.

Easy maintenance and reliable service
Flushing of the system and routine replacement of the tubing is made easy by the intuitive design of Crocodile. Trained technical staff is available to help if needed, and after-warranty service agreements are available in most geographical locations – to ensure trouble-free operation over the lifetime of the instrument.

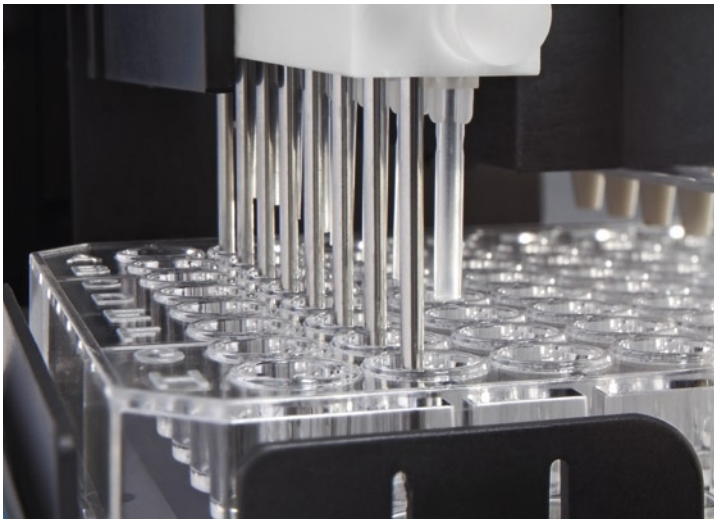
An open system
Crocodile will adapt to any ELISA format, including sandwich, competitive, or other. Reagent bottles of any shape and size are accommodated by the carefully designed and tested bottle holders.

Validation made easy
The validation performance of Crocodile is supported by our 3Q Package: Installation Qualification, Operation Qualification and Performance Qualification steps are performed according to detailed instructions provided. The results are documented in checklists according to the specific features of the instrument.

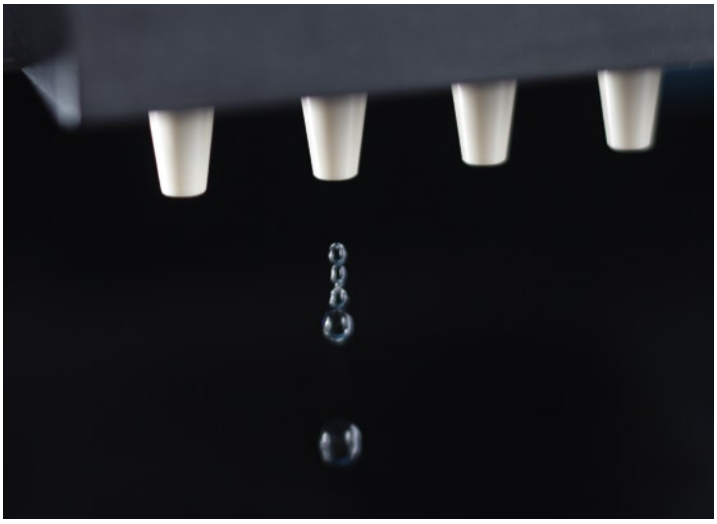
Regulatory compliance
Crocodile has been developed according to the most stringent regulations in the industry: DIN ISO 13485. Every step was accompanied by a thorough risk-analysis. Selection of raw materials and the assembly process are performed under strict observation of released procedures and processes. After final assembly, every individual unit has undergone several days of extensive testing and will be accompanied by a certificate of analysis stating compliance with specifications.

PC-Software
The user friendly software easily adapts to any ELISA protocol. The five different functions can be aligned 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 Crocodile.

Thoughtfully designed - manufactured with care



The 8-well parallel washer provides consistent washing performance



4 high-precision reagent dispensers

The assay reagents are kept firmly in place by the flexible bottle holders. Buffer and waste bottles consume little bench space

Crocodile Technical Data

General specifications	
Sample format	1 x 96 well microplate (SBS standard)
Dimensions (WxDxH)	26.3 x 62.6 x 25.8 cm; 10.4 x 24.6 x 10.2 inch
Weight	14.5 kg; 32 lbs
Interface	USB interface
Power Requirements	240 V 50 Hz, 110 V 60 Hz
Operating Temperature	10–30° C; 50–86° F
Humidity	10–80% (non condensing)

Incubator	
Temperature Range	Ambient + 4–55° C
Temperature Stability	± 1° C across plate at 37° C
Incubation Time	Programmable
Temperature Monitoring	Yes

Reader	
Dynamic Range	0–3.0 OD
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 OD to < 2.0 OD) < 1.5 % CV (2.0–3.0 OD)
Accuracy	± 0.01 OD or 2.5 % (whichever is greater)

Dispenser	
Type	4 independent precision pumps
Volume Range	20–1000 µl
Precision	< 2 % 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	50–1000 µl
Wash Modes	Multiple settings: Sweep mode, soak only, prime only, top and bottom wash
Wash Buffer Capacity	3 containers for different wash solutions
Waste Liquid Container	Input connectors for users' external bottles, any size

Shaker	
Shaking	Independent linear motion 14–20 Hz

PC Requirements	
Required Hardware	Windows computer with free USB port. Please inquire for supported Windows® versions

Preliminary information. Specifications subject to change without prior written notice.

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