



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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