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BIAffinity®

- System for interaction analysis of different molecules Label-free detection principle (reflectometric interference spectroscopy: Rifs)

- Using of the sensor chip technology
 Real-time analysis of binding effects
 Simple sample handling and user-friendly menu driven software

System parameter	
Fluidic	Flow through cell, valves with smallest dead volume < 0.7 μ l
Flow rate	5 – 200 μl/min
Steps of flow rate	1 μl/min
Number of flow channels	2 (single use of channel 1 or channel 1+2 in series)
Internal reference	Channel 1 – channel 2
Samples	
Sample handling	Automatic sample loading and injection via 5 ports
Sample volume	Injection volume + 20 μl
Injection volume	10 μl – 200 μl
Analysis time per sample	2 – 30 min
Optional	96 well standard MTP sampler
Temperature	
Analysis temperature	Up to 40 ℃ ± 0.5 K
Operation temperature	15℃ – 30℃
Measuring parameter	
Measuring point registration	>/= 1 s
SNR (RMS)	0.8 IU
Detection limit	> 1000 Da
Sensitivity	1.4 pg/mm ²
Drift	10 IU/h

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Analysis parameter	
Measurement information	Detection of concentration, kinetics and affinity data
Association rate range (k _a)	$10^3 - 10^6 \mathrm{M}^{-1} \mathrm{s}^{-1}$
Dissociation rate range (k _d)	$10^{-5} - 10^{-1} \mathrm{s}^{-1}$
Affinity	$10^4 - 10^9 \mathrm{M}^{-1}$
Concentration	$10^{-3} - 10^{-10} \text{ M}$
Software	
Data presentation	Label-free real-time monitoring of interactions with simultaneous display of interference spectrum
Data handling	*.csv (commata separated values)
Control software	BIAM measuring program (provides manual and automatic operation mode)
Analysis software	WinAnalyis (optional) for data evaluation
Other technical data	
Computer	Pentium IV processor, Windows 2000 operation system; software instrument
PC connection	USB, connection of PC and detection unit via cable adapter
Weight	Approx. 25 kg
Dimension of device	(W x H x D) 515 x 300 x 370 mm
Dimension of sample holder	(W x H x D) 190 x 165 x 100 mm
Warranty	
Device without flow cell	2 years warranty
Flow cell	½ year warranty



Subject to changes in design and scope of delivery as well as further technical development!