



SPECIFICATIONS

CREOPTIX WAVE

GENERAL

Noise (RMS)	<0.01 pg/mm ² @ 1 Hz
Drift	<0.3 pg/mm ² /min
Readout Frequency	1 Hz, 10 Hz or 40 Hz
Association Const. Range	$k_a = 10^3 - 5 \times 10^7 \text{ M}^{-1} \text{ s}^{-1}$ (small molecules) $k_a = 10^3 - 3 \times 10^9 \text{ M}^{-1} \text{ s}^{-1}$ (large molecules)

Dissociation Const. Range $k_d = 10^{-5} - 10 \text{ s}^{-1}$

Analysis Temperature Range 15°C – 40°C

Molecular Weight Limit No lower limit

waveRAPID® Functionality No

FLUIDICS

Flow Channels / Path 2, parallel

Channel Referencing 1-4 and 4-1 or 2-3 and 3-2

Flow Cells Sealed, disposable, integrated into disposable WAVEchip

Flow Rate 1 – 400 µl/min

Crude Sample Robustness Yes

SAMPLE HANDLING

Sample Capacity 2x microtiter plates (96 or 384 well, standard or deep well) or vial racks (48 positions of 1.5ml)

Buffer 1 buffer

Degasser Built-in

Injection Volume < 450 µl, 100 µl typical

Sample Volume Required Injection volume plus 15-50 µl (application dependent)

Sample Storage Temperature Ambient or 4°C – 20°C regulated

Sample Recovery Yes

Automation 120h of unattended operation

DATA TREATMENT

Information Provided Kinetic and affinity data (k_a , k_d , K_D)

Graphs Real-time curves, multiple curve overlays, fit, report point plots

Data Extraction Curves, k_a , k_d , K_D tables, graphs, reports

Data Analysis Fully automated data evaluation

Kinetic Models Predefined models including 1:1 interaction, mass transport, heterogenous ligand, conformational change and bivalent

Direct Kinetics Yes

