

eksigent

data sheet

nanoLC™-MALDI spotting system *featuring the ekspot™ MALDI spotter*

With the launch of the most advanced NanoLC-MALDI system on the market, speed meets reliability and reproducibility for high-throughput analysis of complex proteins and peptide samples.



MALDI•spotting system

precise MALDI spotter designed for high-throughput proteomics research

Fully optimized for Eksigent's NanoLC system, the Ekspot MALDI spotter can generate up to 8,000 protein spots overnight onto MALDI targets.



speed meets reliability & reproducibility

Coupling NanoLC to MALDI mass spectrometry results in an extremely powerful tool for the analysis of complex peptide and/or protein samples in proteomics. The NanoLC MALDI spotting system brings together Eksigent's highly reproducible NanoLC system with our highly precise MALDI spotter to provide a new dimension in LC separations on MALDI targets:

- *Control the spotter and the LC from the same software.*
- *Maximize throughput by collecting fractions on up to 8 microtiter plate size targets (ABI 4800) or 16 small targets (ABI 4700).*
- *Collect a fraction every four seconds.*
- *Configurable as a fraction collector.*
- *NanoLC reproducibility \pm .5% RSD.*
- *Low delay volumes (<65 μ L) resulting in better separations.*
- *Built-in matrix delivery pump.*

single point control

One software program controls both the NanoLC and the Ekspot, providing simple setup and easy tracking of samples. Enter the gradient, name the sample, program the flow and press start. It's that simple with our integrated software tool.

maximize throughput

The Ekspot holds 16 ABI 4700 targets or eight microtiter plate size targets. Each of the targets can hold up to 1,000 spots and you can generate up to 8,000 spots on an overnight run.

high resolution spotting

The Ekspot is designed to deposit fractions eluting from a NanoLC column onto a MALDI plate, with the MALDI matrix automatically being added. Fractions as fast as four seconds can be spotted in order to optimize resolution. In combination with the NanoLC's separating power due to low delay volumes, minimal peak dispersion, and pumping technology, you will have the most advanced LC-MALDI system available.

incomparable reproducibility

Why try to guess where the peptide of interest resides? The Eksigent NanoLC provides retention time reproducibility less than 0.5% RSD. Be assured that you know its location run-to-run, week-to-week and month-to-month.

flexible design

The NanoLC-MALDI spotting system is the most flexible tool for your mass spec needs. The system can also be used for traditional online LCMS analysis or convert the Ekspot to a fraction collector for offline 2D.

ekspot system specifications

- positioning precision: 100 µm
- spotting frequency: user adjustable in 1 second steps; 4 second minimum
- flow rate range: 200 nL/min to 4 µL/min for MALDI spotting; up to 50 µL/min for fraction collection
- matrix pump: syringe pump with auto-refill
- matrix pump volume: 50 µL standard; 100 µL and 250 µL optional
- matrix flow rate range: 400 nL/min to 50 µ/min with 50 µL syringe

plates supported

- 96/384 wellplate
- ABI 4800
- ABI 4700 standard and OptiTOF targets
- Bruker AnchorChip
- Waters/MicroMass

capacity

- 4 microtiter plate format targets or 8 ABI 4700/Waters targets (optionally 8 and 16)

software control

- Eksigent Software

dimensions

- Ekspot system: 21" (53cm) wide, 15" (38cm) deep, 25.5" (65cm) high

weight

- 16kg (35.2lb)

nanoLC system specifications

- pumping system can be either the NanoLC-1D Plus or NanoLC-2D
- pump type: direct Microfluidic Flow Control™ Technology
- delay volume: 65 nL
- retention time reproducibility: RSD<0.5% at 500 nL/min
- flow rate range: 20 nL/min-1 µL/min depending on configuration

dimensions

- 1D plus: 14" (35cm) wide, 15" (38cm) deep, 8" (20cm) high
- 2D: 18" (46cm) wide, 22" (56cm) deep, 8" (20cm) high

autosampler specifications

- autosampler capacity: one 96 well or 384 well microtiter plate
- autosampler temperature control: 5-40°C
- sampling volume range: 100 nL - 100 µL

dimensions

- autosampler: 18" (45cm) high sits on top of NanoLC

service and warranty

The system includes a one-time installation and training by an Eksigent service representative along with a one-year warranty on parts and labor.

ordering information

description	Part Number
Ekspot MALDI spotter for NanoLC with 4 microtiter plate capacity	950-00040
Ekspot MALDI spotter for NanoLC with 8 microtiter plate capacity	950-00047
NanoLC-1D Plus system bundle with Ekspot and 4 microtiter plate standard capacity	950-00048
NanoLC-1D Plus system bundle with Ekspot and 8 microtiter plate standard capacity	950-00049
NanoLC-2D system bundle with Ekspot and 4 microtiter plate standard capacity	950-00050
NanoLC-2D system bundle with Ekspot and 8 microtiter plate standard capacity	950-00051
Adapter for two (2) ABI 4700 targets	620-00134
Adapter for one (1) ABI 4800 target	800-00250
Adapter for one (1) Bruker AnchorChip 384 MT	620-00136
Adapter for two (2) Waters 96/384 Targets	620-00119



eksigent technologies

headquarters

5875 arnold road

dublin, california 94568

tel: 925 560 2600

fax: 925 560 2700

new jersey office & laboratory

11 deer park, suite 204

monmouth junction, new jersey 08852

tel: 732 274 9190

fax: 732 274 9161

email: info@eksigent.com

website: www.eksigent.com

Eksigent is creating new possibilities for life science research, drug discovery & development, and medical devices with its innovative Microflow™ and Nanoflow™ fluid delivery systems.

Eksigent's LC systems deliver dramatic increases in analysis speed, throughput, and sensitivity. Eksigent's drug delivery systems bring new levels of precision to portable drug delivery.

Today, leading research, pharmaceutical, and biotechnology firms around the world use Eksigent's innovative solutions.