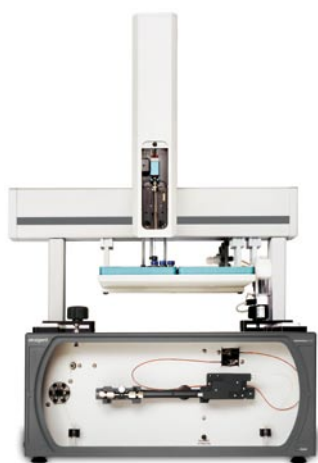


Fast LC systems for pharmaceutical analysis, method development and reaction optimization



ExpressLC®-100 system

Delivering precise, accurate flow rates and reproducible gradients for ADMETox sample analyses, inducible degradation studies, long-term stability studies, chiral separations, and more.

- High throughput without high pressure
- Eliminate re-equilibration deadtime
- Run all day on less than 2.5 mL
- Increase separation efficiency



ExpressLC®-800 system

Maximizing the productivity of your analytical lab by screening eight different methods at once, shortening LC method development from weeks to days.

- Screen eight methods at a time
- Develop methods in 1/10 the time
- Run 4,000 samples in 24 hours
- Cut solvent usage by 99%



ExpressRT™-100 system

Unattended monitoring of synthetic reactions delivers meaningful kinetics data for real-time, on-the-spot decision making by process chemists.

- Generate real-time reaction kinetics data
- Automatically sample and analyze
- Reduce time to optimize a reaction
- Analyze samples and data 24/7

The low-cost of parallel, high-throughput capillary LC

Analytical LC

1 mL/min

12 min/run

10 hours/day

5 days/week

48 weeks/year

\$50/liter

\$7,200/year

12,000 analyses

Capillary LC (X8)

64 μ L/min

3 min/run

10 hours/day

5 days/week

48 weeks/year

\$50/liter

\$480/year

400,000 analyses

Analytical LC (X32)

32 mL/min

12 min/run

10 hours/day

5 days/week

48 weeks/year

\$50/liter

\$230,000/year

400,000 analyses

57.5¢/analysis

Capillary LC (X8)

64 μ L/min

3 min/run

10 hours/day

5 days/week

48 weeks/year

\$50/liter

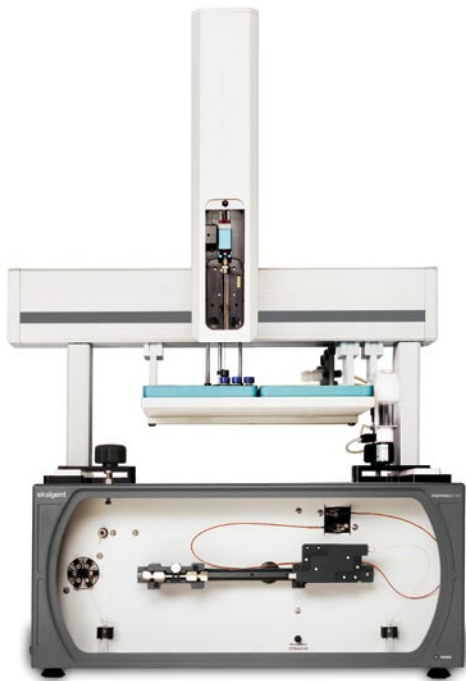
\$480/year

400,000 analyses

0.1¢/analysis



expressLC™-100



Eksigent's pioneer capillary HPLC system, the ExpressLC®-100, is equipped with a flexible autosampler and on-board UV detector. Capable of delivering from 50 to 250 nL per injection, sample availability is never a problem.

Improved resolution

Not only does the system deliver faster analyses, while using significantly less solvent, the ExpressLC-100 limits dispersion throughout the system, and therefore, improves separation resolution.

Increased speed

Eksigent's capillary LC technology surpasses traditional HPLC by operating at conventional pressures, but at much lower flow rates, minimizing dead volumes so re-equilibration is all but eliminated.

Decreased sample volumes

With Eksigent's metered injection option, injecting as little as 50 nL of sample is easily achievable. It is also possible to make multiple injections from a single sample taken from a vial.

	Mixing	Gradient	Reset and Re-equilibration
Capillary	2 sec 0.3 µL	1 min 10 µL	28 sec 4.7 µL → 1.5 min 15 µL
Conventional	30 sec 500 µL	3 min 3000 µL	2.5 min 2500 µL → 6 min 6000 µL

expressRT•100



The ExpressRT™-100 produces real-time results from synthetic reactions for better understanding of reaction processes.

HPLC on the move

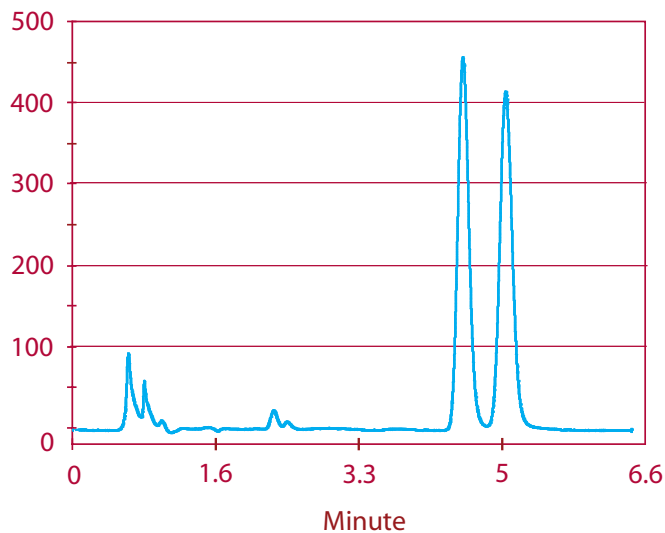
The ExpressRT-100 is designed as a unit to be freely moved from hood-to-hood for at-line reaction testing. With the speed and efficiency of capillary LC and a unique sampling mechanism, results are fast and accurate so there is no more waiting for results.

Sample from reaction vessels

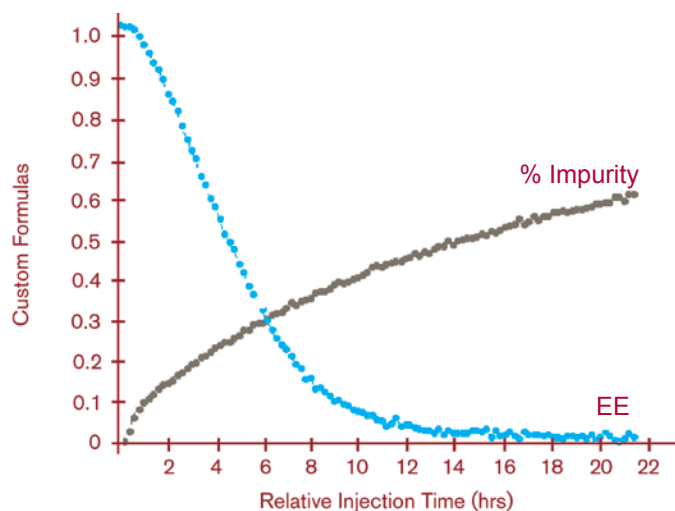
The system's unique "sipper" allows for small volume pickups directly from reaction vessels. Dilutions are performed automatically and samples are automatically injected. Samples are automatically pulled from the reaction at specified time points. They are then diluted and injected.

Optimized software

ExpressRT-100 control software gives the users the ability to track reactions over time. Automatic sampling, dilution, analysis, and presentation are key features in enhancing laboratory efficiency.



Chromatogram showing racemic indanol standard.



Enantiomeric excess and percent impurity expressed as fractions.

This data is collected, calculated and displayed in real-time.

expressLC•800



The ExpressLC®-800 is an eight-channel, single-point-controlled LC system capable of running hundreds of thousands of analyses per year.

Eight LCs in a single chassis

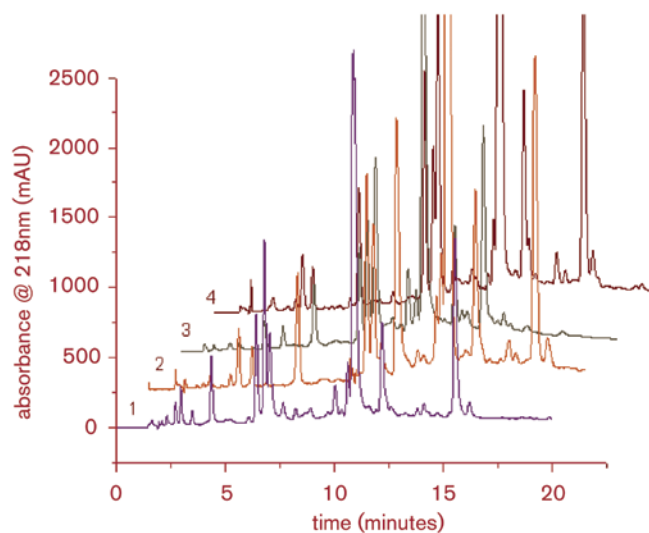
A direct scale-up of the ExpressLC-100, Eksigent's ExpressLC-800 system enables eight channels to run the same methods simultaneously, or the channels can run completely independently. Each channel includes its own built-in diode array detector for maximum throughput.

Single point control

Capable of running more than 100,000 sample analyses from a single instrument, the ExpressLC-800 is operated under a single software platform. A double-headed autosampler enables a single user to operate at blazing fast speeds.

Increased throughput

For those looking to increase throughput, the ExpressLC-800 combines eight LCs into one system with the power of capillary chromatography and the benefit of single point control by a single user.



C18 Columns used to Separate Green Tea Extract.

column	manufacturer	phase	particle size	length
1	ACE	AQ	3µm	15cm
2	Agilent	SB-C18	5µm	15cm
3	Waters	Atlantis	5µm	15cm
4	Agilent	XDB	3.5µm	15cm

Separation of green tea aqueous extract on all columns listed in the table to the right.

Mobile phase A: water with 0.1% TFA and mobile phase B: 80% acetonitrile/20 % methanol with 0.1 % TFA.

Thinking uPLC? Think again.

While uPLC and Eksigent's capillary LC may deliver similar results, Eksigent's technology platform allows for significant time and solvent savings.

- **Decrease run times over current separation methods.**
- **Choose any packing material available.**
- **Eliminate the worries of ultra high pressure fittings.**
- **Use less than 1% of the solvent required by traditional or ultra high pressure systems.**
- **Help save the environment while saving time and money.**

About Eksigent Technologies

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.

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

© 2007 Eksigent Technologies. All rights reserved. Information subject to change without notice. Eksigent and ExpressLC are registered trademarks of Eksigent Technologies. ExpressRT, Microflow, and Nanoflow are trademarks of Eksigent Technologies. All other trademarks are property of their respective owners. Patents pending worldwide.
Printed in the USA. PHARMA-DS1-1207-2000

