

monoLyser[™]

Patent Pending

Ultrafast Sample Lysis

Simple to use:



Difficult to lyse sample.



Load tube with sample (dry corn kernel) and ceramic ball.



5 s lysis in monoLyser[™].



Results of 5 s lysis of dry corn kernel.



Genomic DNA from corn kernel.

5 seconds from sample to lysate for
DNA * RNA * PROTEINS

- Omnidirectional motion with the highest g's!
- Handheld system for lab and field use.
- Best quality and quantity of DNA, RNA, proteins, and metabolites even from the most difficult samples to process, such as:
 - seeds, soil, bones, teeth,
 - tissues, spores, yeasts, and
 - gram positive microbes.
- Uses standard 2 mL screw cap tubes for lysis.
- Compatible with any existing grinding matrices.
- Compatible with ANY downstream purification and analytical protocols.

www.monolyser.com

Be the first one to use the
monoLyser[™]
in your lab!

Free lab demos are available
for qualified customers.
Reserve yours today.

BUY your system today
and receive a
free carrying case.

Contact:

Tel. +1-949-275-3380

Fax. +1-208-979-2687

monolyser@rotaprep.com

www.rotaprep.com

RotaPrep
sample preparation systems



monoLyser™

Patent Pending

Ultrafast Sample Lysis

Data Sheet



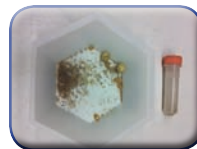
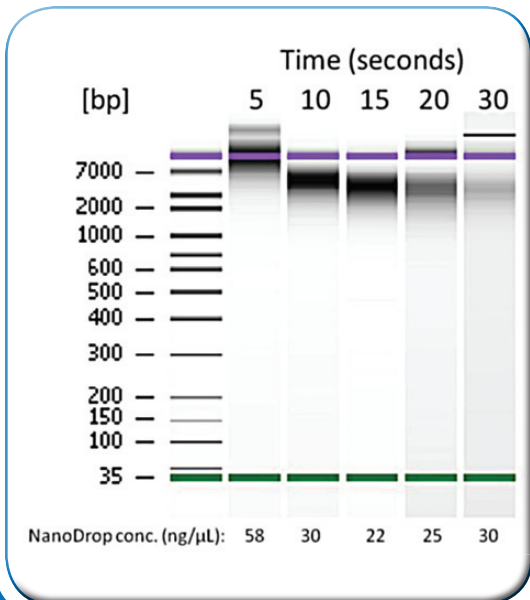
Name of Product: **MonoLyser™**

Product Number: MLYS01

Date: February 7, 2013

RotaPrep MonoLyser™ Lab and Field Life Science Homogenizer. Patent Pending.

Disruption Principle	Combination of cascade impaction, mechanical shearing, and shear-flow lysis based on multi-directional bead beating.
Kits compatible with instrument	All sample preparation protocols and kits, which use 2ml sample lysis tubes for bead beating-based homogenization. Compatible with any downstream protocol for DNA, RNA, proteins, and metabolites purification and characterization.
Power requirements	90-240V for lab version, cordless operation for field version.
Overall Length	1.3"
Overall Width	3.4"
Overall Height	4.6"
Weight	1.9 lbs.
Number of Tubes per Run	1
Size of Tube	Standard 2 ml (screw cap), with either conical or flat bottom
Maximum speed	4,900 CPM (AC powered) 4,400 CPM (cordless)
Minimum speed	1,000 CPM (AC powered) 500 CPM (cordless)
Type of Motion	Reciprocating
Peak to Peak Amplitude of Motion	1.5"
Peak Acceleration	up to 500 G.
Sound at 1ft.	100 dB at 4,900 CPM 90 dB at 3,300 CPM
Typical Run Time	2-15 seconds at 3,300 CPM
Features	Fastest, (2-15 sec/sample), complete, quantitative sample lysis of most difficult samples. Maximum recovery of DNA, RNA, proteins and metabolites. Wet and dry sample grinding. Closed disposable samples container, prevents cross contamination. Compatible with all downstream processing and kits, including any of the bind-wash-elute protocols, solid phase extraction, phase separations, HPLC, GC, and mass spec processing. Hand-held, safe for field use, with built-in battery power supply.



Contact:

Tel. +1-949-275-3380

Fax. +1-208-979-2687

monolyser@rotaprep.com

www.rotaprep.com

RotaPrep
sample preparation systems