

ML230 Focused-ultrasonicator

The Parallel Sample Processing Platform

Powered by Covaris Adaptive Focused Acoustics® (AFA®)

Proprietary Covaris AFA-energetics™ for Standardization of Pre-analytical Sample Preparation

- Parallel processing of up to 8 samples
- Highly tunable acoustic energy for sample processing volumes of 5 to 500 μ L
- Compact and easy-to-use benchtop platform with touchscreen user interface
- Calibrated to NIST traceable standards, enabling high quality, standardized results

Supported Clinical Applications

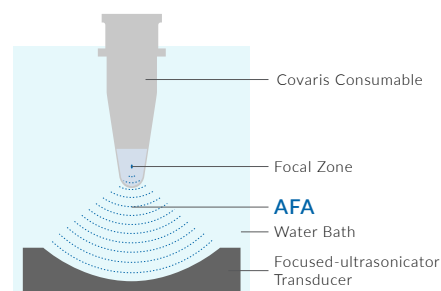
- Industry and clinical standard for NGS mechanical fragmentation
- DNA, RNA, Protein, and Biomarker extraction for clinical applications (oncology FFPE tissues, whole blood)
- Most advanced pre-analytical sample preparation: solid and liquid tissue disruption, sample dissociation, and chromatin shearing (www.covaris.com/resources/technical-notes/)

Features	Benefits
AFA-energetics (active, non-contact, isothermal acoustic energy)	Precise and accurate results with the robust AFA process
Intuitive touchscreen control	Friendly, easy-to-use software user interface
Automated water management	Easy to maintain
Simultaneous processing	Preserves labile biomolecules



Patented Covaris AFA Attributes

- Medical grade high frequency (MHz) ultrasonic transducer
- Geometrically focused convergent acoustic energy
- Non-contact delivery of controlled focused acoustic energy
- Sample vessel engineered for AFA
- Consistent sample processing temperature



Product Specifications

Part Number	500656
Treatment Power	2.5 to 500 Watts peak incident power, 0.1 to 250 Watts average incident power
Dimensions	46.5 cm (width), 51.5 cm (depth), and 58.5 cm (height)
Weight	36 kg
Power Requirements	100 to 240 VAC 500VA, 50 to 60 Hz
Operating Environment	15 to 25 °C
Sample Processing Temperature	10 to 40 °C
Regulatory Labeling	CE, ETL Mark (for Product Safety), WEEE
Operating System	Microsoft Windows 10
Covaris Software	SonoLab™ 10
Computer	Integrated controller with touchscreen
Chiller/Heater	Integrated, Air-cooled
Batch Size	1 to 8 samples

Instrument Ordering Information

Part Number	Product Name	Description
500656	ML230 Focused-ultrasonicator	High performance benchtop parallel processing of up to 8 samples.

Consumable Ordering Information

Part Number	Product Name	Description
520292	8 AFA-TUBE TPX Strip	8-strip RFID traceable consumables specially engineered for AFA-energetics in a 200 µL format.
520240	8 microTUBE-50 AFA Fiber H Slit Strip V2	A specially designed and engineered glass vessel with H Slit septa to optimize DNA Shearing in a 50 µL sample volume with Covaris Focused-ultrasonicators.
520239	8 microTUBE-130 AFA Fiber H Slit Strip V2 (12)	A specially designed and engineered glass vessel with H Slit septa to optimize DNA Shearing in a 130 µL sample volume with Covaris Focused-ultrasonicators.

In Development

Part Number	Product Name	Description
Coming Soon	AFA-TUBE 500	4-strip RFID traceable consumables specially engineered for AFA-energetics in a 500 µL format.
Coming Soon	8 microTUBE-50 AFA Fiber H Slit Strip RFID (12)	A specially designed and engineered glass vessel with RFID and an H Slit septa to optimize DNA Shearing in a 50 µL sample volume with Covaris Focused-ultrasonicators.
Coming Soon	8 microTUBE-130 AFA Fiber H Slit Strip RFID (12)	A specially designed and engineered glass vessel with RFID and an H Slit septa to optimize DNA Shearing in a 130 µL sample volume with Covaris Focused-ultrasonicators.