

ME220™ Focused-ultrasonicator

The Next AFA-prepSTATION™ ...batch processing at the benchtop

High-performance sample preparation

- Precise, accurate, & reproducible results
- 1 to 8 sample batch-processing
- 15 µl to 1 ml sample volume

Designed for ease-of-use

- 2-minute start-up time
- Preloaded protocols
- Integrated benchtop design

Highest performance with Adaptive Focused Acoustics® (AFA™)

- Gold standard pre-analytical sample preparation
- Isothermal – no heat-induced sample damage or bias
- Non-contact / closed vessel – no cross-contamination, clean-up, or sample loss

Robust engineered design

- Custom Class D, high-efficiency electronics
- Custom “gorilla” glass acoustic cuvettes
- Calibrated to NIST traceable standards

Powered by
AFA-energetics™



AFA-optimized acoustical cuvettes



8 microTUBE™ strip



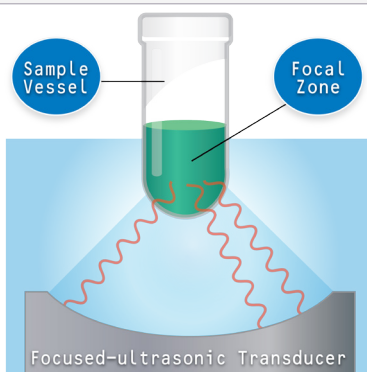
microTUBE



miniTUBE™



milliTUBE™



Adaptive Focused Acoustics (AFA) is Covaris' patented AFA technology comprised of proprietary integrated electronics, medical-grade transducer, and engineered acoustic cuvettes, efficiently and reproducibly converts focused high frequency acoustic energy to mechanical energy localized within a sample tube. AFA Energetics uses controlled bursts of high frequency focused acoustic energy to process samples in a temperature-controlled, non-contact, and closed-vessel environment. AFA Focused-ultrasonicators are recommended by all major NGS platform providers, and are used by leading Genome Centers and core labs worldwide.

Optimized Pre-analytical Applications

- truSHEAR™ DNA Shearing for Next-Gen Sequencing
- truXTRAC™ FFPE DNA/RNA Extraction
- truXTRAC DBS DNA extraction
- truChIP™ Chromatin Shearing for ChIP
- truCOLLECT™ Biomarker Extraction
- truXTRAC MALDI-TOF Mycobacterium Kit

| INSTRUMENT |
|--|
| ME220 Focused-ultrasonicator |
| APPLICATION KITS |
| ME220 NGS 15 to 130 µl microTUBE Starter Kit |
| ME220 NGS and FFPE Starter Kit |
| ME220 NGS and ChIP Starter Kit |
| ME220 NGS and DBS Starter Kit |

| PRODUCT SPECIFICATIONS | |
|---------------------------|--|
| Regulatory Certifications | CE, ETL Mark (for Product Safety), WEEE |
| Size | 43 cm (width) 35 cm (depth) 48 cm (height) |
| Weight | 40 lbs (19.1kg) |
| Operating Environment | Laboratory, 15° C to 25° C ambient temperature |
| Sample vessels | 8 microTUBE Strip, microTUBE-15, microTUBE-50, microTUBE-130, milliTUBE 1 ml, and miniTUBE, |
| Maximum Power | 75 W PIP (Peak Incident Power) |
| Temperature control | Internal temperature control: Protocol temperature range from 7° C to 20° C |
| Software | SonoLab™ Operating Software |
| System Control | Includes: Notebook computer interface via USB with Microsoft Windows and Covaris SonoLab software installed. |
| Installation / setup | Customer installable |
| Safety | Complies with Low Voltage Directive 2006/95/EC. Certified to IEC/EN/UL 61010-1:2004 "Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements" |
| EMC | Complies with radio frequency emissions and immunity requirements for Class A Industrial/Scientific/Medical (ISM) equipment under EN 61326-1:2005, as well as EN 61000-3-2:2004 and EN61000-3-3:1995. These standards meet the essential requirements of the EU EMC Directive 2004/108/EC. Additionally, the instrument meets FCC Part 15 Class A radio emissions requirements for the USA and ICES-003 Class A for Industry Canada. |

USA: Covaris, Inc. • Tel: +1 781-932-3959 • Fax: +1 781-932-8705 • Email: customerservice@covarisinc.com • Web: www.covarisinc.com

EUROPE: Covaris Ltd. • Tel: +44 (0)845 872 0100 • Fax: +44 (0)845 384 9160 • Email: eucustomerService@covarisinc.com • Web: www.covarisinc.com

PART NUMBER: M020031, REV A | EDITION JANUARY 2016

INFORMATION SUBJECT TO CHANGE WITHOUT NOTICE | FOR RESEARCH USE ONLY | NOT FOR USE IN DIAGNOSTIC PROCEDURES | COPYRIGHT 2016 COVARIS, INC.