



Covaris[®]

a PerkinElmer Company

Consumable Guide

AFA-certified[®] Plates, Tubes, and Vials

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Note to User

Not all consumables are compatible with every application. Not all available consumables are included in this brochure. Please refer to the respective protocol or user manual. Please contact Application Support at applicationsupport@covaris.com to discuss any sample processing and application needs.



S220 Focused-ultrasonicator

Common Applications

- DNA, RNA, and Chromatin Shearing
- DNA, RNA, Total NA (tNA), and Protein Extraction from FFPE
- cfDNA Extraction from Plasma
- Cell Lysis: Mammalian, Bacterial, and Yeast
- Tissue Lysis and Extraction

Consumables		Inserts and Holders	
microTUBE-15 AFA Beads Screw-Cap (15 µL) (PN 520145 — qty. 25) (PN 520153 — qty. 250)		S-Series Holder microTUBE-15 Screw-Cap (PN 500427)	
microTUBE-50 AFA Fiber Screw-Cap (55 µL) (PN 520166 — qty. 25) (PN 520167 — qty. 250)		S-Series Holder microTUBE-50 Screw-Cap (PN 500492)	
microTUBE Screw-Cap (130 µL) (PN 520118 - qty. 25)		S-Series Holder microTUBE-130 Screw-Cap (PN 500339)	
microTUBE AFA Fiber Pre-Slit Snap-Cap (130 µL) (PN 520045 — qty. 25) (PN 520077 — qty. 250)		Holder microTUBE (PN 500114)	
microTUBE AFA Fiber Pre-Slit Crimp-Cap (130 µL) (PN 520052 — qty. 25) (PN 520091 — qty. 250)			
microTUBE-500 AFA Fiber Screw-Cap (500 µL) (PN 520185 — qty. 25)		S220 Holder microTUBE-500 Screw-Cap (PN 500449)	
milliTUBE 1 mL (PN 520128 — qty. 100) (PN 520129 — qty. 1000)		Holder milliTUBE 1 mL (PN 500371)	
milliTUBE 1 mL AFA Fiber (PN 520135 — qty. 24) (PN 520130 — qty. 100) (PN 520131 — qty. 1000)			
milliTUBE 2 mL (PN 520132 — qty. 100) (PN 520133 — qty. 1000)		Holder milliTUBE 2 mL (PN 500375)	



M220 Focused-ultrasonicator

Common Applications

- DNA, RNA, and Chromatin Shearing
- DNA, RNA, Total NA (tNA), and Protein Extraction from FFPE
- cfDNA Extraction from Plasma
- Cell Lysis: Mammalian, Bacterial, and Yeast
- Tissue Lysis and Extraction

Consumables		Inserts and Holders			
microTUBE-15 AFA Beads Screw-Cap (15 µL) (PN 520145 — qty. 25) (PN 520153 — qty. 250)		M220 Holder XTU Insert microTUBE-15 (PN 500420)		M220 Holder XTU (PN 500414)	
microTUBE-50 AFA Fiber Screw-Cap (55 µL) (PN 520166 — qty. 25) (PN 520167 — qty. 250)		M220 Holder XTU Insert microTUBE-50 (PN 500488)		M220 Holder XTU (PN 500414)	
microTUBE AFA Fiber Pre-Slit Snap-Cap (130 µL) (PN 520045 — qty. 25) (PN 520077 — qty. 250)		M220 Holder XTU Insert microTUBE-130 (PN 500489)		M220 Holder XTU (PN 500414)	
microTUBE AFA Fiber Pre-Slit Crimp-Cap (130 µL) (PN 520052 - qty. 25) (PN 520091 - qty. 250)		M220 Holder XTU Insert microTUBE-130 (PN 500489)		M220 Holder XTU (PN 500414)	
microTUBE-500 AFA Fiber Screw-Cap (500 µL) (PN 520185 — qty. 25)		M220 Holder XTU Insert microTUBE-500 (PN 500471)		M220 Holder XTU (PN 500414)	
milliTUBE 1 mL (PN 520128 — qty. 100) (PN 520129 — qty. 1000)		M220 Holder XTU Insert milliTUBE 1 mL (PN 500422)		M220 Holder XTU (PN 500414)	
milliTUBE 1 mL AFA Fiber (PN 520135 — qty. 24) (PN 520130 — qty. 100) (PN 520131 — qty. 1000)					
milliTUBE 2 mL AFA Fiber (PN 520186 — qty. 24)		M220 Holder XTU Insert milliTUBE 2 mL (PN 500591)		M220 Holder XTU (PN 500414)	



ME220 Focused-ultrasonicator

Common Applications

- DNA, RNA, and Chromatin Shearing
- DNA, RNA, Total NA (tNA), and Protein Extraction from FFPE
- cfDNA Extraction from Plasma
- Cell Lysis: Mammalian, Bacterial, and Yeast
- Tissue Lysis and Extraction

Consumables		Inserts and Holders			
microTUBE-15 AFA Beads Screw-Cap (15 µL) (PN 520145 — qty. 25) (PN 520153 — qty. 250)		ME220 Waveguide 4-place (PN 500534)		ME220 Rack 4-place microTUBE Screw-Cap (PN 500522)	
8 microTUBE-15 AFA Beads Strip V2 (15 µL) (PN 520159 — qty. 12) (PN 520162 — qty. 120)		ME220 Waveguide 8-place (PN 500526)		ME220 Rack 8 microTUBE Strip V2 (PN 500518)	
8 microTUBE-15 AFA Beads H-Slit Strip V2 (15 µL) (PN 520241 — qty. 12) (PN 520244 — qty. 120)					
microTUBE-50 AFA Fiber Screw-Cap (55 µL) (PN 520166 — qty. 25) (PN 520167 — qty. 250)		ME220 Waveguide 4-place (PN 500534)		ME220 Rack 4-place microTUBE Screw-Cap (PN 500522)	
8 microTUBE-50 AFA Fiber Strip V2 (55 µL) (PN 520174 — qty. 12) (PN 520175 — qty. 120)		ME220 Waveguide 8-place (PN 500526)		ME220 Rack 8 microTUBE Strip V2 (PN 500518)	
8 microTUBE-50 AFA Fiber H-Slit Strip V2 (55 µL) (PN 520240 — qty. 12) (PN 520243 — qty. 120)					
microTUBE-130 AFA Fiber Screw-Cap (130 µL) (PN 520216 — qty. 25)		ME220 Waveguide 4-place (PN 500534)		ME220 Rack 4-place microTUBE Screw-Cap (PN 500522)	
8 microTUBE-130 AFA Fiber Strip V2 (130 µL) (PN 520217 — qty. 12)		ME220 Waveguide 8-place (PN 500526)		ME220 Rack 8 microTUBE Strip V2 (PN 500518)	
8 microTUBE-130 AFA Fiber H-Slit Strip V2 (130 µL) (PN 520239 — qty. 12) (PN 520242 — qty. 120)					

ME220 Focused-ultrasonicator (continued)









Consumables		Inserts and Holders			
microTUBE AFA Fiber Pre-Slit Snap-Cap (130 µL) (PN 520045 — qty. 25) (PN 520077 — qty. 250)		ME220 Waveguide 8-place (PN 500526)		ME220 Snap-Cap/Crimp-Cap/ 8 microTUBE Strip V1 Rack (PN 500514)	
microTUBE AFA Fiber Pre-Slit Crimp-Cap (130 µL) (PN 520052 — qty. 25) (PN 520091 — qty. 250)					
8 microTUBE Strip (130 µL) (PN 520053 — qty. 12) (PN 520109 — qty. 120)					
microTUBE-500 AFA Fiber Screw-Cap (500 µL) (PN 520185 — qty. 25)		ME220 Waveguide 4-place (PN 500534)		ME220 Rack 4-Position micro-TUBE-500 (PN 500525)	
milliTUBE 1 mL (PN 520128 — qty. 100) (PN 520129 — qty. 1000)		ME220 Waveguide 4-place (PN 500534)		ME220 Rack - 4-place milliTUBE 1 mL (PN 500520)	
milliTUBE 1 mL AFA Fiber (PN 520135 — qty. 24) (PN 520130 — qty. 100) (PN 520131 — qty. 1000)					



ML230 Focused-ultrasonicator

Common Applications

- DNA, RNA, and Chromatin Shearing
- DNA, RNA, Total NA (tNA), and Protein Extraction from FFPE
- cfDNA Extraction from Plasma
- Cell Lysis: Mammalian, Bacterial, and Yeast
- Tissue Lysis and Extraction

Consumables		Inserts and Holders	
8 AFA-TUBE TPX Strip (PN 520292 — qty. 12)		ML230 Rack 8 AFA-TUBE TPX Strip Caps (PN 500660)	
8 AFA-TUBE TPX Strip Caps (PN 500639 — qty. 12)			
8 microTUBE-50 AFA Fiber Strip V2 ¹ (PN 520174 — qty. 12) (PN 520175 — qty. 120)		ML230 Rack 8 microTUBE Strip V2 (PN 500661)	
8 microTUBE-50 AFA Fiber H-Slit Strip V2 ¹ (PN 520240 — qty. 12) (PN 520243 — qty. 120)			
8 microTUBE-130 AFA Fiber Strip V2 ² (PN 520217 — qty. 12)			
8 microTUBE-130 AFA Fiber H-Slit Strip V2 ² (PN 520239 — qty. 12) (PN 520242 — qty. 120)			



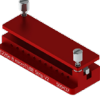


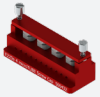








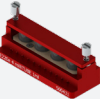

1 - These consumables are interchangeable. 2 - These consumables are interchangeable. Shearing protocols for both consumables can be found in the [ML230 Shearing Guide](#).

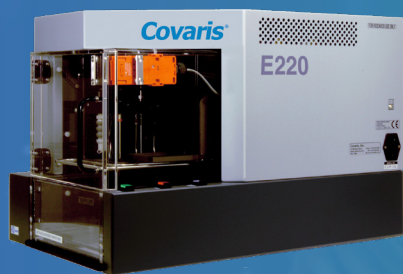


E220evolution Focused-ultrasonicator

Common Applications

- DNA, RNA, and Chromatin Shearing
- DNA, RNA, Total NA (tNA), and Protein Extraction from FFPE
- cfDNA Extraction from Plasma
- Cell Lysis: Mammalian, Bacterial, and Yeast
- Tissue Lysis and Extraction

Consumables		Inserts and Holders	
microTUBE-15 AFA Beads Screw-Cap (15 µL) (PN 520145 — qty. 25) (PN 520153 — qty. 250)		Rack E220e 4-place microTUBE Screw-Cap (PN 500432)	
8 microTUBE-15 AFA Beads Strip V2 (15 µL) (PN 520159 — qty. 12) (PN 520162 — qty. 120)		Rack E220e 8 microTUBE Strip V2 (PN 500437)	
8 microTUBE-15 AFA Beads H-Slit Strip V2 (15 µL) (PN 520241 — qty. 12) (PN 520244 — qty. 120)			
microTUBE-50 AFA Fiber Screw-Cap (55 µL) (PN 520166 — qty. 25) (PN 520167 — qty. 250)		Rack E220e 4-place microTUBE Screw-Cap (PN 500432)	
8 microTUBE-50 AFA Fiber Strip V2 (55 µL) (PN 520174 — qty. 12) (PN 520175 — qty. 120)		Rack E220e 8 microTUBE Strip V2 (PN 500437)	
8 microTUBE-50 AFA Fiber H-Slit Strip V2 (55 µL) (PN 520240 — qty. 12) (PN 520243 — qty. 120)			
8 microTUBE Strip (130 µL) (PN 520053 — qty. 12) (PN 520109 — qty. 120)		Rack E220e 8 microTUBE Strip (PN 500430)	
microTUBE AFA Fiber Pre-Slit Snap-Cap (130 µL) (PN 520045 — qty. 25) (PN 520077 — qty. 250)		Rack E220e 8-place microTUBE Crimp and Snap Cap (PN 500433)	
microTUBE AFA Fiber Pre-Slit Crimp-Cap (130 µL) (PN 520052 - qty. 25) (PN 520091 - qty. 250)		Rack E220e 8-place microTUBE Crimp and Snap Cap (PN 500433)	
microTUBE-500 AFA Fiber Screw-Cap (500 µL) (PN 520185 — qty. 25)		Rack E220e 4 microTUBE-500 Screw-Cap (PN 500484)	
milliTUBE 1 mL (PN 520128 — qty. 100) (PN 520129 — qty. 1000)		Rack E220e 4-place milliTUBE 1 mL (PN 500431)	
milliTUBE 1 mL AFA Fiber (PN 520135 — qty. 24) (PN 520130 — qty. 100) (PN 520131 — qty. 1000)			



E220 Focused-ultrasonicator

Common Applications

- DNA, RNA, and Chromatin Shearing
- DNA, RNA, Total NA (tNA), and Protein Extraction from FFPE
- cfDNA Extraction from Plasma
- Cell Lysis: Mammalian, Bacterial, and Yeast
- Tissue Lysis and Extraction

Consumables		Inserts and Holders	
microTUBE-15 AFA Beads Screw-Cap (15 μ L) (PN 520145 — qty. 25) (PN 520153 — qty. 250)		Rack 24-place microTUBE Screw-Cap (PN 500308)	
8 microTUBE-15 AFA Beads Strip V2 (15 μ L) (PN 520159 — qty. 12) (PN 520162 — qty. 120)		Rack 12-place 8 microTUBE Strip V2 (PN 500444)	
8 microTUBE-15 AFA Beads H-Slit Strip V2 (15 μ L) (PN 520241 — qty. 12) (PN 520244 — qty. 120)			
microTUBE-50 AFA Fiber Screw-Cap (55 μ L) (PN 520166 — qty. 25) (PN 520167 — qty. 250)		Rack 24-place microTUBE Screw-Cap (PN 500308)	
8 microTUBE-50 AFA Fiber Strip V2 (55 μ L) (PN 520174 — qty. 12) (PN 520175 — qty. 120)		Rack 12-place 8 microTUBE Strip V2 (PN 500444)	
8 microTUBE-50 AFA Fiber H-Slit Strip V2 (55 μ L) (PN 520240 — qty. 12) (PN 520243 — qty. 120)			
96 microTUBE-50 AFA Fiber Plate (50 μ L) (PN 520168)		N/A	
96 microTUBE-50 AFA Fiber Plate Thin Foil (50 μ L) (PN 520232)		N/A	
microTUBE AFA Fiber Pre-Slit Snap-Cap (130 μ L) (PN 520045 — qty. 25) (PN 520077 — qty. 250)		Rack 24-place microTUBE Snap-Cap (PN 500111)	
microTUBE AFA Fiber Pre-Slit Crimp-Cap (130 μ L) (PN 520052 — qty. 25) (PN 520091 — qty. 250)		Rack 96-place microTUBE Crimp-Cap (PN 500282)	
8 microTUBE Strip (130 μ L) (PN 520053 — qty. 12) (PN 520109 — qty. 120)		Rack 12-place 8 microTUBE Strip (PN 500191)	
96 microTUBE Plate (130 μ L) (PN 520078)		N/A	

E220 Focused-ultrasonicator (continued)

Consumables		Inserts and Holders	
96 microTUBE AFA Fiber Plate Thin Foil (130 µL) (PN 520230)		N/A	
microTUBE-500 AFA Fiber Screw-Cap (500 µL) (PN 520185 — qty. 25)		Rack, 24 microTUBE-500 Screw-Cap (PN 500452)	
milliTUBE 1 mL (PN 520128 — qty. 100) (PN 520129 — qty. 1000)		Rack 24-place milliTUBE 1 mL (PN 500368)	
milliTUBE 1 mL AFA Fiber (PN 520135 — qty. 24) (PN 520130 — qty. 100) (PN 520131 — qty. 1000)			
milliTUBE 2 mL (PN 520132 — qty. 100) (PN 520133 — qty. 1000)		Rack 24-place milliTUBE 2 mL (PN 500376)	



LE220-plus*/LE220R-plus/LE220Rsc Focused-ultrasonicator

Common Applications

- DNA, RNA, and Chromatin Shearing
- DNA, RNA, Total NA (tNA), Protein Extraction from FFPE
- cfDNA Extraction from Plasma
- High Molecular Weight DNA Extraction
- Cell Lysis
- Compound Screening**
- Hit Validation**
- Target ID & Validation**
- Sample Processing: Bead Mixing**

Consumables		Inserts and Holders	
8 AFA-TUBE TPX Strip (PN 520292 — qty. 12)		LE220-plus Rack 8 AFA-TUBE TPX Strip (PN 500685)	
8 AFA-TUBE TPX Strip Caps (PN 500639 — qty. 12)			
96 AFA-TUBE TPX Plate (PN 520291)		Rack 96 AFA-TUBE TPX Plate (PN 500684)	
		PS Rack 96 AFA-TUBE TPX Plate (PN 500622)	
8 microTUBE-15 AFA Beads Strip V2 (15 µL) (PN 520159 — qty. 12) (PN 520162 — qty. 120)		Rack-LV 12-place 8 microTUBE Strip V2 (PN 500445)	
8 microTUBE-15 AFA Beads H-Slit Strip V2 (15 µL) (PN 520241 — qty. 12) (PN 520244 — qty. 120)			
8 microTUBE-50 AFA Fiber Strip V2 (55 µL) (PN 520174 — qty. 12) (PN 520175 — qty. 120)		Rack-XT 12-place 8 microTUBE Strip V2 (PN 500485)	
8 microTUBE-50 AFA Fiber H-Slit Strip V2 (55 µL) (PN 520240 — qty. 12) (PN 520243 — qty. 120)			
96 microTUBE-50 AFA Fiber Plate (50 µL) (PN 520168)		N/A	
96 microTUBE-50 AFA Fiber Plate Thin Foil (50 µL) (PN 520232)		N/A	
microTUBE AFA Fiber Pre-Slit Crimp-Cap (130 µL) (PN 520052 — qty. 25) (PN 520091 — qty. 250)		Rack 96-place microTUBE Crimp-Cap (PN 500282)	

*LE220-plus does not come with light curtain. **Applications only available on the LE220Rsc.

LE220-plus*/LE220R-plus/LE220Rsc Focused-ultrasonicator (continued)

Consumables		Inserts and Holders	
8 microTUBE Strip (130 µL) (PN 520053 — qty. 12) (PN 520109 — qty. 120)		Rack 12-place 8 microTUBE Strip (PN 500191)	
96 microTUBE Plate (130 µL) (PN 520078)		N/A	
96 microTUBE AFA Fiber Plate Thin Foil (130 µL) (PN 520230)		N/A	
microTUBE-500 AFA Fiber Screw-Cap (500 µL) (PN 520185 — qty. 25)		Rack, 24 microTUBE-500 Screw-Cap (PN 500452)	
milliTUBE 1 mL (PN 520128 — qty. 100) (PN 520129 — qty. 1000)		Rack 24-place milliTUBE 1 mL (PN 500368)	
milliTUBE 1 mL AFA Fiber (PN 520135 — qty. 24) (PN 520130 — qty. 100) (PN 520131 — qty. 1000)			
milliTUBE 2 mL (PN 520132 — qty. 100) (PN 520133 — qty. 1000)		Rack 24-place milliTUBE 2 mL (PN 500376)	

*LE220-plus does not come with light curtain. **Applicatoins only available on the LE220Rsc.



R230 Focused-ultrasonicator

Common Applications

- Bead Mixing/Pellet Resuspension
- DNA Shearing
- Total NA (tNA) Extraction from FFPE
- High Molecular Weight DNA Extraction
- Cell Lysis: Mammalian
- Compound screening
- Hit Validation
- Target ID & Validation

Consumables		Inserts and Holders	
96 AFA-TUBE TPX Plate (PN 520291)		R230 Rack 96 AFA-TUBE TPX Plate (PN 500668)	
384 AFA-TUBE 5 PP Plate (PN 520302) 384 AFA-TUBE 20 PP Plate (PN 520303)		Rack PSU R230 384 AFA-TUBE 5 PP Plate (PN 500708)	
96 AFA-TUBE TPX 150 Plate (PN 520310 — qty. 5)		PSU Rack R230 TPX Plate & 130 Plate (PN 500750)	
96 microTUBE Plate (130 µL) (PN 520078)			
8 AFA-TUBE TPX Strip (PN 520292 — qty. 12)		R230 Rack 96 AFA-TUBE TPX Plate (PN 500668)*	PSU Rack R230 8 AFA-TUBE TPX Strip (PN 500723)*
8 AFA-TUBE TPX 150 Strip (PN 520312 — qty. 12)		PSU Rack R230 TPX Plate & 130 Plate (PN 500750)* 	
8 AFA-TUBE TPX Strip Caps (PN 500639 — qty. 12)			
96 AFA-TUBE PS Plate (PN 520311)		N/A	
8 microTUBE Strip (130 µL) (PN 520053 — qty. 12) (PN 520109 — qty. 120)		PSU Rack R230 TPX Plate & 130 Plate (PN 500750)* 	Rack R230 8 microTUBE Strip (PN 500803)

*RFID Reader needed.

Support and Technical Assistance

Tech Support: Ongoing assistance with the operation or application of the equipment and/or troubleshooting is provided via:

- **Telephone:**
 - US & APAC: +1 781.932.3959, during the hours of 8:30 a.m. to 5:00 p.m. (EST), Monday through Friday
 - EU: +44 (0)845 872 0100, during the hours of 9:00 a.m. to 5:00 p.m. (GMT), Monday through Friday
- **E-mail:**
 - Service and Instrumentation: techsupport@covaris.com
 - Solutions: applicationsupport@covaris.com
 - US Customer Service: customerservice@covaris.com
 - EU/UK Customer Service: emeacustomerservice@covaris.com
 - APAC Customer Service: APACcustomerservice@covaris.com

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