# microTUBE AFA Fiber Snap-Cap (PN 520045) microTUBE AFA Fiber Crimp-Cap (PN 520052)

# **Intended Use**

The microTUBE(s) AFA<sup>®</sup> Fiber Snap-Cap (<u>PN 520045</u>) and Crimp-Cap (<u>PN 520052</u>) are singular vessels designed to hold a 130 µL sample volume that has been optimized for use with AFA-energetics<sup>™</sup>. Each tube contains an AFA fiber that improves reproducibility, promotes a temperature-controlled process, reduces fragmentation times, and allows small sample volumes to be processed.

Both tubes require an instrument specific Rack or Holder and compatible instruments are listed below:

- microTUBE AFA Fiber Snap-Cap (<u>PN 520045</u>): M220, ME220, S220, E220, E220*evolution*, and LE220
- microTUBE AFA Fiber Crimp-Cap (PN 520052): ME220, S220, E220, L-series



The microTUBEs have an easy-to-pierce, pre-cut slit in the septum of the Cap to minimize transfer time for the sample from the storage container to the shearing vessel. Refer to the Covaris-certified Consumable Guide for further information (covaris.com/wp-content/uploads/M020065.pdf). DNA shearing protocols with the microTUBEs are instrument specific. Do not store sheared samples in the microTUBEs.

The microTUBE(s) is a one-time use Consumable. Recommended instructions are subject to change without notice.

For current protocols, quick guides, technical notes, or application notes: <u>https://www.covaris.com/protocols</u>. For specific help with applications involving shearing, contact <u>applicationsupport@covaris.com</u>. Recommended instructions are subject to change without notice.



# **References and Supporting Documentation**

- DNA Shearing with M220
- DNA Shearing with ME220
- DNA Shearing with S220
- DNA Shearing with E220and E220evolution
- DNA Shearing with LE220
- DNA Shearing with LE220-plus, LE220R-plus, LE220Rsc

# **Operating Limits**

| Temperature (water bath)  | Please refer to protocols in specific instrument Quick Guides.     |  |
|---------------------------|--|--|
| Recommended Sample Volume | 30 ± 5 µL  |  |
| Storage                   | Dry, at ambient temperature (18-25°C), and out of direct sunlight. |  |



**CAUTION:** All Covaris microTUBEs must operate within energy constraints. The power maximum levels are guides and should not be exceeded. Operating outside of these limits or limits published in Covaris protocols may compromise the integrity of the microTUBEs.

# **Relevant Accessories and Plate Definitions**

Please refer to the Quick Guide for specific parameters for all applications.

#### M220

| Peak Incident Power (W)<br>& Duty Factor (%) | Please refer to Instrument Shearing Quick Guide for specific combinations.                          |  |
|--|---|--|
| Holder + Insert                              | M220 Holder XTU ( <u>PN 500414</u> ) + M220 Holder XTU Insert microTUBE 130 μL ( <u>PN 500489</u> ) |  |

#### ME220

| Peak Incident Power (W)<br>& Duty Factor (%) | Please refer to Instrument Shearing Quick Guide for specific combinations.        |  |
|--|---|--|
| Rack   | nap-Cap/Crimp-Cap/8 microTUBE Strip V1 Rack ( <u>PN 500514</u> )                  |  |
| Waveguide                                    | ME220 Waveguide 8 Place ( <u>PN 500526</u> )                                      |  |
| Plate Definition                             | "8 microTUBE-130 Snap-Cap PN 520045.2"<br>"8 microTUBE-130 Crimp-Cap PN 520052.2" |  |

#### S220

| Peak Incident Power (W)<br>& Duty Factor (%) | Please refer to Instrument Shearing Quick Guide for specific combinations. |  |
|--|--|--|
| Holder                                       | -Series Holder microTUBE ( <u>PN 500114</u> )                              |  |
| Water Level (RUN)                            | 12   |  |



#### E220

| Peak Incident Power (W)<br>& Duty Factor (%) | Please refer to Instrument Shearing Quick Guide for specific combinations.                                      |  |
|--|---|--|
| Rack   | Rack 24 Place microTUBE Snap-Cap ( <u>PN 500111</u> )<br>Rack 96 Place microTUBE Crimp-Cap ( <u>PN 500282</u> ) |  |
| Plate Definition                             | "500111 24 microTUBE snap +4mm offset"<br>"E220_500282 Rack 96 Place microTUBE -6mm offset"                     |  |
| Water Level (RUN)                            | 6   |  |
| Intensifier                                  | Yes   |  |

#### E220evolution

| Peak Incident Power (W)<br>& Duty Factor (%) | Please refer to Instrument Shearing Quick Guide for specific combinations. |  |
|--|--|--|
| Rack   | Rack E220e 8 Place microTUBE Crimp and Snap Cap ( <u>PN 500433</u> )       |  |
| Plate Definition                             | "500433 E220e 8 microTUBE Crimp and Snap Cap -3.7mm offset"                |  |
| Water Level (RUN)                            | 6  |  |
| Intensifier                                  | Yes  |  |

# LE220

| Peak Incident Power (W)<br>& Duty Factor (%) | Please refer to Instrument Shearing Quick Guide for specific combinations. |  |
|--|--|--|
| Rack   | ack 96 Place microTUBE Crimp-Cap ( <u>PN 500282</u> )                      |  |
| Plate Definition                             | "LE220_500282 Rack 96 Place microTUBE -4mm offset"                         |  |
| Water Level (RUN)                            | 6  |  |

# LE220-plus/LE220R-plus/LE220Rsc (for SonoLab 8 and SonoLab 10)

| Peak Incident Power (W)<br>& Duty Factor (%) | Please refer to Instrument Shearing Quick Guide for specific combinations.                                       |  |
|--|--|--|
| Rack   | k 96 Place microTUBE Crimp-Cap ( <u>PN 500282</u> )  |  |
| Plate Definition                             | "LE220plus_500282 Rack 96 Place microTUBE -4mm offset"<br>"LE220PRSC_500282 Rack 96 Place microTUBE -4mm offset" |  |
| Water Level (RUN)                            | Automatically Adjusted by the Instrument   |  |

**NOTE:** If the plate definition is not present on the system, contact Covaris Technical Support (<u>Techsupport@covaris.com</u>) with the system serial number.

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# **Instructions for Use**

- 1. The microTUBE(s) has a pre-cut slit septum for sample loading.
- 2. Add the sample through the septum, being careful to keep the AFA Fiber in the microTUBE(s).
- 3. Ensure the cap has not been loosened during sample loading.
- 4. Load the microTUBE(s) into the appropriate rack or holder and process the sample.
- 5. Once finished, remove the sample from the microTUBE(s). Do not store the sample in the microTUBE(s).

# **Ordering Information**

| Part Name  | Part Number   | Part Description   |
|--|---------------|--|
| microTUBE AFA Fiber Pre-Slit Snap-Cap<br>6x16mm      | <u>520045</u> | 130 $\mu L$ sample volume glass tube with AFA Fiber                    |
| microTUBE AFA Fiber Pre-Slit Snap-Cap<br>6x16mm Case | <u>520077</u> | Case of 250, 130 $\mu\text{L}$ sample volume glass tube with AFA Fiber |
| microTUBE AFA Fiber Crimp-Cap 6x16mm                 | <u>520052</u> | 130 $\mu L$ sample volume glass tube with AFA Fiber                    |
| microTUBE AFA Fiber Crimp-Cap<br>Case 6x16mm Case    | <u>520091</u> | Case of 250, 130 $\mu L$ sample volume glass tube with AFA Fiber       |



### **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: <a href="mailto:techsupport@covaris.com">techsupport@covaris.com</a>
  - Solutions: applicationsupport@covaris.com
  - US Customer Service: <u>customerservice@covaris.com</u>
  - EU/UK Customer Service: emeacustomerservice@covaris.com
  - APAC Customer Service: <u>APACcustomerservice@covaris.com</u>

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