

PRODUCT INSERT



TITLE: Covaris 8 oneTUBE-10 AFA Strip

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Operating Limits and Conditions:

AFA Temperature	4°C – 40°C
Peak Incident Power	450 Watt maximum
Volume	10uL and 50 µL
Water level	Automatically adjusted
Centrifuge	2,200 x RCF maximum
Focused-ultrasonicator	ME220, LE220-plus
Rack	Rack 8 oneTUBE-10 AFA® Strip for ME220 Rack 8 oneTUBE-10 AFA® Strip for LE220-plus



Ordering Information:

Name	Description	Part Number
8 oneTUBE-10 AFA Strip (12)	8 well oneTUBE-10 AFA Strip	520225
8 oneTUBE-10 AFA Strip (120)	8 well oneTUBE-10 AFA Strip	520253
Rack 8 oneTUBE-10 AFA Strip	Rack to be used during AFA® processing on LE220-plus	500608
Rack 8 oneTUBE-10 AFA Strip	Rack to be used during AFA® processing on ME220	500609
Thin Foil Seals (25)	Foil seals for sealing rows during AFA® processing, dimensions of 96 plate	520235
Strip Foil Seal (12)	Foil seals for sealing single strips during AFA® processing	520108
8 oneTUBE-10 AFA Strip Caps	Caps for sealing during AFA® processing	500613

Product Name	8 oneTUBE-10 AFA® Strip
Part Number	520225 or 520253
Compatible volume	10 µL and 50 µL
ME220 Plate definition	“8 oneTUBE-10 Strip PN 520225” (contact Customer Service at TechSupport@covaris.com if Plate Definition is not provided in SonoLab)
LE220-plus Plate definition	“LE220plus_520249 96 oneTUBE Plate -2.2mm offset” (contact Customer Service at TechSupport@covaris.com if Plate Definition is not provided in SonoLab)

Notes:

- This strip must be used with the Rack 8 oneTUBE-10 AFA® strip PN 500609 or 500608 depending on instrument
- Designed for use with automated 1, 8, and 96 channel pipettors
- Recommended instructions are subject to change without notice

Revision History:

Part Number	Revision	Date	Description of change
010447	B	05/18	Addition of information for use on the LE220-plus system

In This Package:

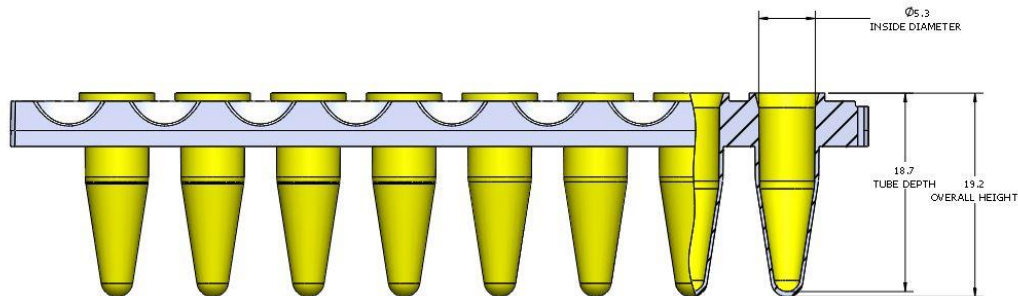
- Ready-to-use 8 oneTUBE-10 AFA® Strip
- Desiccant pouch

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Nominal Strip Dimensions:

Overall Tube Height (top of tubes)	19.2 mm
Tube center-to-center spacing	9.0 mm (SBS standard pattern)
Tube depth:	
8 oneTUBE-10 AFA® Strip	18.7 mm
Interior clearance diameter	5.0 mm (maximum tip diameter 18.5 mm from end)



NOTE: Store the plates at Room Temperature in a dry place before use.

Instructions for Use:

CAUTION: REMOVE THE DESICCANT PACK PRIOR TO USE

The 8 oneTUBE-10 AFA® Strip is a ready-to-use sample processing vessel. The specially-designed 8 strip is optimized for use with Covaris Adaptive Focused Acoustics® (AFA).

The strip is designed as typical labware compatible with automation including heating blocks, magnetics stands, etc. If volume is at maximum, be sure to pipette slowly from the top of the tube to ensure no sample displacement.

Recommended Sequence for Use:

1. Fill the tubes:

Aspirate sample and dispense into the 8 oneTUBE-10 AFA® Strip. Dispense the samples about 2-3 mm above the bottom of the tube or at the bottom depending on sample volume being careful to dispense all the sample into the bottom of the tube.

2. Seal the plate for AFA-processing:

- ME220: Apply strip caps to tops of tubes.
- LE220-plus: Apply strip caps or thin foil seal to tops of tubes. If using strip caps, use the solid rack lid labeled “FOR CAP STRIP USE”. If using thin foil to seal, use the open rack lid labeled “FOR FOIL SEAL USE”.

3. Centrifugation:

We recommend centrifuging the strip after sample addition to ensure the sample is at the bottom of the tube. Centrifuge the strip for ≤ 10 seconds at up to 2200rcf. Visually inspect strip to verify that all liquid is at the bottom of each tube before proceeding to Step 4. The strip is now ready to be processed in your Covaris instrument.

4. AFA-processing:

Refer to the Quick Guide, DNA shearing with ME220 Focused-ultrasonicator http://covaris.com/wp-content/uploads/pn_010349.pdf for shearing using the ME220 system. The strip must be in the ME220 Rack 8 oneTUBE-10 AFA Strip (PN 500609) using the waveguide (PN 500526) for processing.

Refer to the Quick Guide, DNA shearing with LE220-plus Focused-ultrasonicator http://covaris.com/wp-content/uploads/pn_010433.pdf for shearing using the LE220-plus system. The strips must be in the Rack 8 oneTUBE-10 AFA® Strip for LE220-plus (PN 500608) for processing.

5. Centrifugation:

We recommend centrifuging the strip after AFA® for ≤ 10 seconds at up to 2200rcf before removing any sample.

6. Downstream sample handling:

After AFA® treatment, the samples are ready for downstream processing. The strip caps or foil seal can be removed for processing in the 8 oneTUBE-10 AFA® Strip. Do not use the strip for long-term storage of the samples.

Technical Assistance

- By telephone (+1 781 932 3959) during the hours of 9:00am to 5:00pm, Monday through Friday, United States Eastern Standard Time (EST) or Greenwich Mean Time (GMT) minus 05:00 hours
- By e-mail at ApplicationSupport@covaris.com