

PRODUCT INSERT



8 AFA-TUBE™ TPX Strip (PN 520292)

For current protocols: <http://covaris.com/resources/>

Intended Use

The product is designed for AFA-energetics™ sample processing in the following Covaris AFA Focused-ultrasonicators: LE220-plus, LE220R-plus, LE220Rsc, and the ME220



Operating Limits:

LE220-plus, LE220R-plus, LE220Rsc, and R230
Average Incident Power (AIP) --- Maximum

90 W continuous mode
250 W pulsing mode

ME220

Average Incident Power (AIP) --- Maximum

9 W continuous mode
14 W pulsing mode

Volume (max)

200 µL

Water level

Automatically adjusted

Centrifuge

2,200 x RCF maximum

Storage

Dry at ambient temperature and protected from direct sunlight

Ordering Information:

Name	Description	Part Number
8 AFA-TUBE TPX Strip (12)	8 well AFA-TUBE TPX Strip	520292
Rack 8 AFA-TUBE TPX Strip	LE220-plus, LE220R-plus, and LE220Rsc rack	500685
Rack 8 AFA-TUBE TPX Strip	ME220 rack	500609
Thin Foil Seals (25)	Foil seals for 12 strips plate	520235
Strip Foil Seal (12)	Foil seals for sealing single strips during AFA® processing	520108
8 AFA-TUBE TPX Strip Caps	Caps for sealing during AFA® processing	500639

Plate Definitions

ME220	"8 AFA-TUBE TPX Strip PN 520292" (if Plate Definition is not in SonoLab contact Technical Support at TechSupport@covaris.com)
LE220-plus LE220R-plus LE220Rsc	"LE220plus_500685 8 AFA-TUBE TPX Strip 1.8 offset" (if Plate Definition is not in SonoLab contact Technical Support at TechSupport@covaris.com)

Notes:

- This strip must be used with the Rack 8 AFA-TUBE TPX strip PN 500609 or PN 500685
- 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
010503	A	05/19	Release of 8 AFA-TUBE TPX Strip

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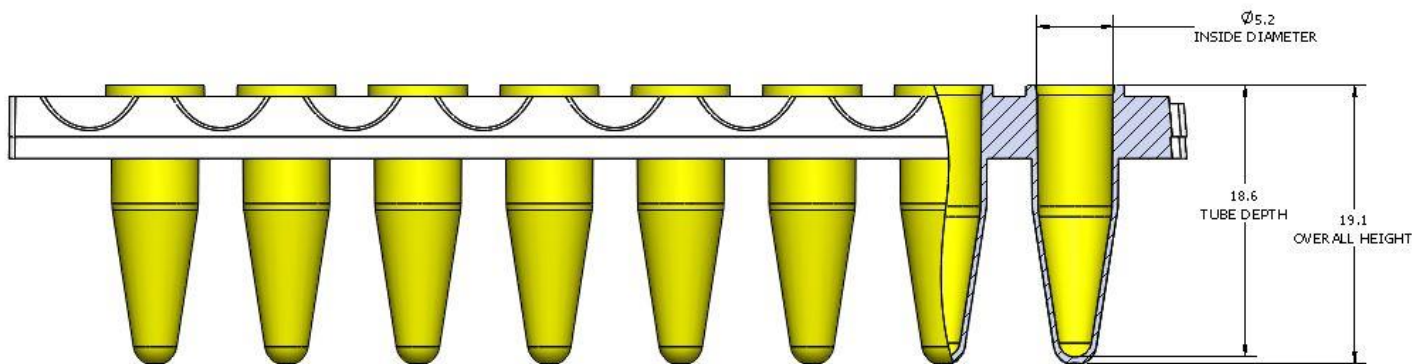
010503	B	02/2020	Updating the PN for the 8 AFA-TUBE TPX Strip
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In This Package:

- Ready-to-use 8 AFA-TUBE TPX Strip
- Desiccant pouch

Nominal Strip Dimensions:

Overall Height (top of tube)	19.1 mm (without seal)
Tube center-to-center spacing	9.0 mm (SBS standard pattern)
Tube depth:	
• 8 AFA-TUBE TPX Strip	18.6 mm
• Interior clearance diameter	5.2 mm (maximum tip diameter 18.5 mm from end)



Instructions for Use:

CAUTION: REMOVE THE DESICCANT PACK PRIOR TO USE

The 8 AFA-TUBE TPX 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, magnetic 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:

Dispense the samples about 2-3 mm from the bottom of the tube or at the bottom depending on sample volume.

2. Seal the plate for AFA-processing:

- ME220: Apply strip caps or foil seal strip to tops of tubes.
- LE220-plus, LE220R-plus, LE220Rsc: 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. Pre AFA-Centrifugation:

Centrifuge the strip after sample addition to ensure the sample is at the bottom of the tube for ≤ 10 seconds at up to 2,200 RCF. Visually inspect to verify that all liquid is at the bottom of each tube before proceeding to Step 4.

4. AFA-processing (examples):

- ME220: Refer the Quick Guide, DNA shearing with ME220 Focused-ultrasonicator http://covaris.com/wp-content/uploads/pn_010349.pdf. The strip must be in the ME220 Rack 8 AFA-TUBE TPX Strip (PN 500609) using the waveguide (PN 500526) for processing.
- LE220-plus, LE220R-plus, LE220Rsc: Refer to the Quick Guide, DNA shearing with Focused-ultrasonicator http://covaris.com/wp-content/uploads/pn_010433.pdf. The strips must be in the Rack 8 AFA-TUBE TPX Strip for LE220-plus (PN 500685) for processing.

5. Post AFA Centrifugation:

Centrifuge the strip after AFA for ≤ 10 seconds at up to 2,200 RCF 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 AFA-TUBE TPX Strip. Do not use the strip for long-term storage of the samples.

Technical Assistance

- 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
- E-mail ApplicationSupport@covaris.com