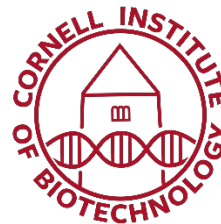


COVARIS S220EVOLUTION - SOP



PROTOCOL TO RUN THE COVARIS

- A) Turn occupied sign on door to indicate room is occupied.
- B) Disinfect all surfaces with disinfecting spray and paper towels provided.
- C) On computer screen, open Covaris software.
 - a) Using an existing shearing method:
 - (1) Select method from drop down menu at top left.
 - b) Creating a new shearing method:
 - (1) Select "new" at top left.
 - (2) On methods editor screen:
 - i. Select tube type from top left drop down.
 - ii. Select number of samples from sample diagram at left.
 - iii. Select temp range at middle right. Set no lower than 7-degree C.
 - (3) Click "add step" at center of the screen:
 - i. Set Peak Incident Power, Duty Factor, Cycles/Burst, and Duration.
 - ii. Click "OK" at the bottom of pop-out screen.
 - (4) Select "Save As" at the bottom center:
 - i. Name with user or lab last name, size range and number of samples.
 - c) Edit an existing shearing method:
 - (1) Select method from drop down at top left.
 - (2) Click "edit" under protocol drop down.
 - (3) To edit the number of tubes, select correct number of tubes at middle left.
 - (4) To method, select the pen icon at middle right.
 - (5) Edit Peak Incident Power, Duty Factor, Cycles/Burst, or Duration.
 - (6) Click "Save As" and amend name with protocol changes.
 - d) To run method:
 - (1) Click "load position" button at center right.
 - (2) Load Covaris tubes with sample inside into tube holder and hand tighten screws.
 - (3) Open door by holding door button on machine and pulling on door handle.
 - (4) Load tube holder into red rack carriage in machine.
 - (5) Close door.
 - (6) Click green "Run" button.
 - (7) Monitor progress at the bottom middle and time at the middle left.
 - (8) Click "close" run results screen when complete.
 - (9) Press load position button to bring red carriage back to the front.
 - (10) Open door by holding door button on machine and pulling on door handle.
 - (11) Unload tube holder into red rack carriage in machine.
 - (12) Close door.
 - (13) Loosen screws and unload tubes.
 - (14) Leave tube hold on paper towel to dry or reload holder with more tubes; repeat steps (2) to (13) in this section.

BASIC USAGE RULES

- **Do not** train others on this instrument.
- **Do not** fill the water bath with more water.
- **Do** clean all surfaces before and after use with provided cleaning spray and paper towels.

NEED HELP OR HAVE A QUESTION?

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