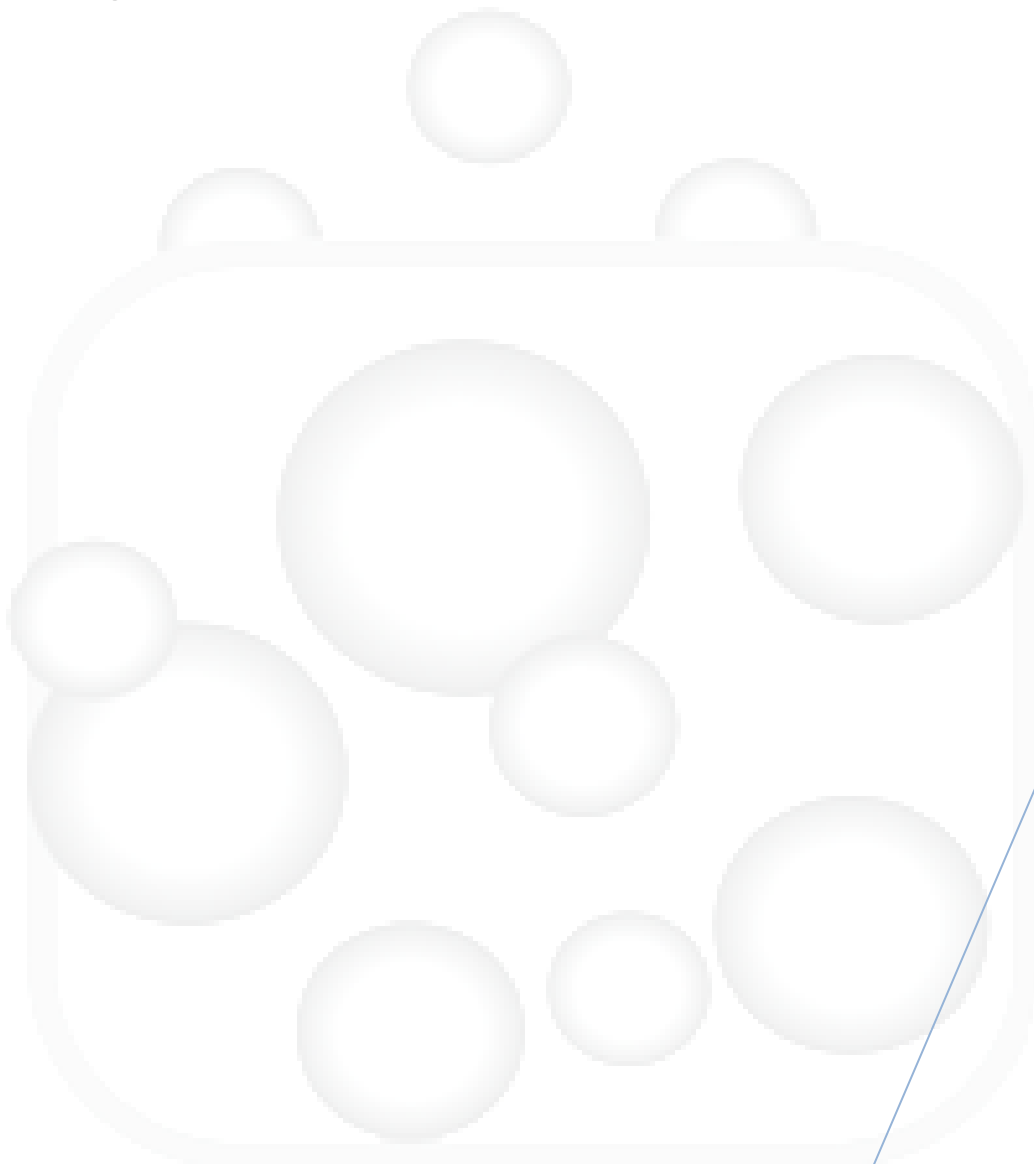




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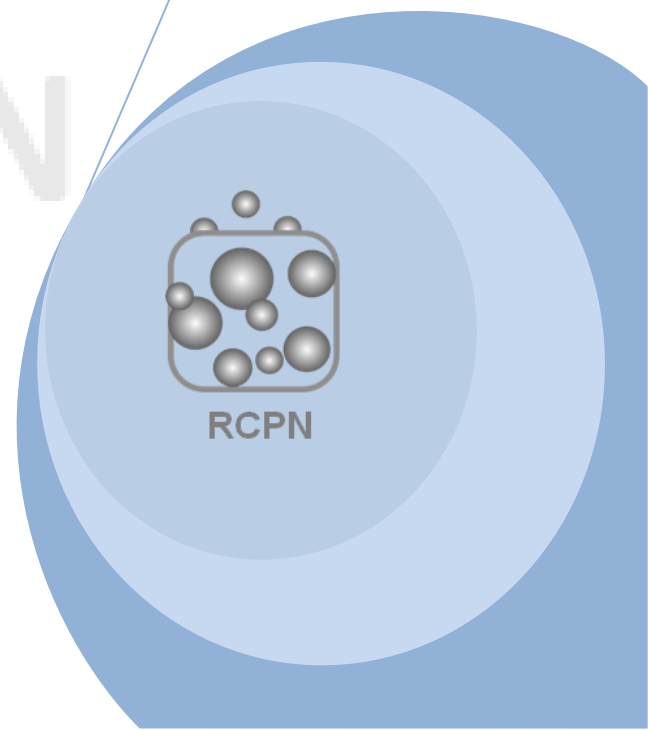
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Ultrasonic Homogenizers Operating instructions
PSR

Dr. Mesgari. A
6/12/2016



Detailed procedure

Ultrasonic Homogenizers Operating instructions

1. Turn on the homogenizer.
2. Wait the LCD display light up.
3. Press the "Menu" button to set the desired operating parameters.
4. Switch between individual parameters by repeatedly pressing the "Menu" button.
5. Set the desired value for the selected parameter by turning the rotary knob.
6. Operating parameters are amplitude or power, sonication time, pulsation on/off, temperature limitation.
7. Press the start/ stop button to initiate and terminate the process.
8. Do not touch the processing vessel with the vibrating probe – probes and vessels can be damaged.
9. Do not use bent probes (\Rightarrow instable operation, power loss).
10. When sonicating liquids, the probe should be inserted 10 mm deep in order to avoid air intake and mixing in the liquid. If air mixing is wanted, the probe should only be inserted a few millimeters. The recommended immersion depth of the probes is between 1 and 20 mm.
11. Micro and tapered tips should only be inserted max. 20 mm into the liquid.
12. To produce emulsions, the probe should be inserted to the height of the separation plane between the liquids being mixed.
13. Do not use combustible solvents in open reaction vessels because they may endanger the homogenizer's operation.
14. All oscillating parts like standard horns, booster horns, microtips, tapered tips or titanium flat tips, vessels and other accessories must be cleaned and disinfected after every treatment.

Good luck!



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Document Description	The following protocol provides a standard operating procedure for Ultrasonic Homogenizers
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