

Standard operating procedure of Bath Sonicator

Objective: These instructions describes the usage, maintenance and calibration of a Korean manufactured homogenizer system which is kept in Nano-biomaterial laboratory.

Scope: This apparatus is applicable for emulsification, homogenizing liquid phase, disrupting cells, liquid degassing and sonochemistry and should not be used for irrelevant cases.

Responsibility: Laboratory assistance is responsible for the accuracy of the apparatus and should be reported to him/her in case of problems.

Materials and equipment: A steel holder such as a tray

Guidelines for use:

- 1 – Pick up the apparatus door and fill with distilled water to the specified part. Add a few drops of detergent to the water.
- 2 - Float the desired material into the water.
- 3 - Set the required temperature.
- 4 – Set the time required for sonication. At this time, the apparatus will completely work until adjusted time and then apparatus astronomically turns off.
- 5 - Remove the plug from the socket.

Warning and safety precautions:

During process or after process place the apparatus in the closet and close it.

Maintenance:

After completing the procedure, turn off the machine and wash the dishes.

Ensure that the bath sonicator is clean and contamination free. If you observe contamination, change the water in it.

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Author / translator	Faezeh bakhshi