

Standard operating procedure of Bath Sonicator

Objective: These instructions describe 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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