



RCPN

Standard operating procedure of Homogenizer

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

Scope: This apparatus is applicable for homogenizing solutions 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 wrench for opening/closing the apparatus probe.

Guidelines for use:

- 1 - Connect the plug into the socket.
- 2 - Fix the homogenizer apparatus on its special bars via its specific clamps.
3. Turn on the apparatus by the power button which is located in the back of the apparatus.
- 4 – Adjust the speed rate (RPM) by bottom and top arrows which is located in front of the apparatus.
- 5 - Enter the specific probe into the first hole on the beam of the probe into the liquid which requires to be homogenized. Note that the minimum mentioned item must be followed.
- 6 - Thorough cleaning is necessary after each use, rinse the probe at 5000 rpm (every one 5minute) with chloroform, methanol, and ethanol (70 %), respectively.
- 7 - At the end don't forget to turn off the apparatus.

Warning and safety precautions:

The homogenizing procedure should not be carried out over than 18,000 RPM.

Turn off the apparatus as soon as possible if an abnormal sound is heard.

Avoid putting not closed volatile and toxic substances on the table.

Maintenance:

After completing the procedure, turn off the apparatus and rinse the probe, respectively, by chloroform, methanol, and ethanol (70 %).

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