



RCPN

Standard operating procedure of Shaker incubator

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

Scope: This apparatus is applicable for preparing selective controlled media for growth of microorganism, cells and plants 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: The beakers and Erlenmeyer flasks special for the shaker incubator are required for the operation of apparatus. The apparatus needs an accessory equipment such as Trans.

Guidelines for use:

1 - Turn on the apparatus by power switch. This apparatus is capable of time and temperature planning, up to three intervals and three temporal ranges.

2 - Press the TEMP button. Set the required temperature by downward and upward arrows then the press the square button. When different temperatures are required repeat this process for T1, T2 and T3 three times. If you need the same temperature for a long time adjust all the mentioned factors on one required temperature.

3 - Press the TIME button. Set the required time which is relevant to adjusted temperature by downward and upward arrows then press the square button. When different times are required repeat this process for Time1, Time2 and Time3 three times. If you need to work with apparatus for a long time adjust all the mentioned factors on one required time.

4 - Set the apparatus shaking rate by pressing the relevant SHAKE button and press the square button to stabilize it.

5 – Press the START button then turn on the SHAKE switch. The temperature flasher of the apparatus starts blinking to show you the apparatus has been started.



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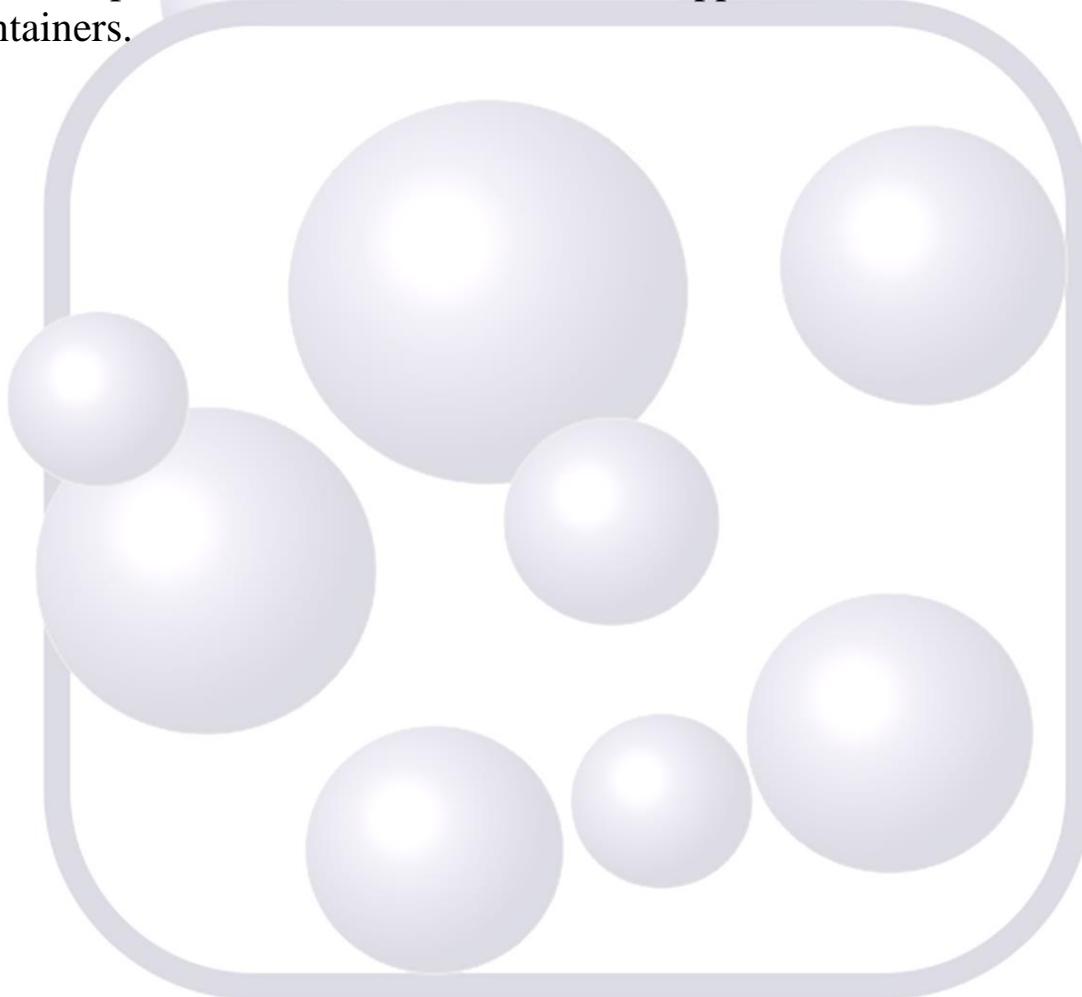
6 - Press the STOP button after determinate duration then turn off the apparatus by POWER switch.

Warning and safety precautions:

Be cautious when using the apparatus with high speed. If you need to work for a long time, be sure the laboratory assistance has been informed. Avoid leaving open volatile and toxic material also avoid putting flammable material inside the apparatus.

Maintenance:

After the process has finished, turn off the apparatus and wash the used containers.



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