

## **Items Requiring Caution in Regard to the Use of the Ultracentrifuge**

1. A reservation is required for the use of the ultracentrifuge and the rotor.
2. Persons not skilled in the use of the ultracentrifuge must use the equipment in conjunction with a person who is skilled in its use.
3. Be sure to insert and take out samples outside the chamber.
4. Make sure good balance is maintained. Also check once again to make sure the buckets are set symmetrically,
5. When setting the rotor on the motor shaft, make sure it is set correctly. In addition, when using a cold rotor, wipe off any excess water drops before setting it.
6. When using the swing bucket rotor, make sure the buckets are attached to the hinge pins. Regardless of the number of samples used, all 6 buckets must be used.
7. When closing the cap of the vertical rotor, make sure you use the tools provided, and also make sure the cap is closed firmly.
8. After starting the procedure, carefully observe the equipment until the preset rotation speed is achieved.
9. If you notice any abnormal vibration, hit the stop button immediately, and contact a staff member.
10. After the centrifuge procedure is finished, always wash the rotor with water, dry it, and restore it to its prescribed storage location.
11. Do not leave or place any items on top of the ultracentrifuge.
12. When the specific gravity of a solution is higher than 1.2, such as with a cesium chloride solution, lower the maximum number of rotation speed by 10 or 20%.
13. After using the equipment, if there is even the smallest item that catches your attention, be sure to report it to a staff member.