

*Please use after reserves.*

*Call 7472 and tell the use time. (Sorry,Japanese only)*

## How to use of BECKMAN TL-100

*We will encourage the power supply to be turned on for 15 minutes or more before it uses centrifuge.*

1. The main body breaker is turned on. (The lower side on display panel)
2. The vacuum pump works automatically.  
When the [DOOR] button is pushed, the vacuum pump stops.  
Open the door when the sound that air enters stops.  
(The vacuum pump work automatically when you leave the door closed. )
3. Adjust the balance of weight of sample.  
Set it in the rotor symmetrically.  
(Put white adapters(spacer) if you use the micro tube.)
4. Set the rotor on the axis and push the button of the cap of the rotor.  
(When the button is pushed, it is locked. It unlocks when pushing again. )
5. The vacuum pump work automatically when the door closed.
6. The condition is set. Push the [SPEED] button. Input the value.  
Fixes it with [ENTER/DISPLAY] button.  
[TIME] and [TEMP] are made similar.
7. Acceleration and deceleration are set. Push the [ACCEL] button.  
Input the value. Fixes it with [ENTER/DISPLAY] button.  
(It is rapid that the value is small. The value is set from 0 to 9. )  
[DECEL] is similarly set.
8. When the “VAC” lamp of the display panel is turned off, it is possible to start.  
Push [START] after pushing [ENTER /DISPLAY] to start centrifuging.

### After centrifugal finishes

9. The [DOOR] button is pushed, and air is enter.  
Open the door when the sound that air enters stops.
10. The button of cap of rotor is pushed, and the lock is released.  
The rotor is taken out.
11. After the main body breaker is turned off, the door is closed.
12. Filling in the note.(Every time, fill note.)

### Reference

Condition in TLA-100.3 rotor (cap of gold) often used

Micro tube	<u>100,000g / 55,000rpm</u>	limit(MAX) 170,000g / <u>70,000rpm</u>
Thick wall tube	<u>100,000g / 50,000rpm</u>	limit(MAX) 410,000g / 100,000rpm

# Do not do

Centrifugal no balance of sample.  
Or the tube is not set in symmetry.

(Do not use the state, that is unbalance. )

When the micro tube is used, Spacer is not used.

(This becomes unbalanced, too.)

Do not use a general-purpose micro tube.

(The tube might break in the centrifugal force. )

Don't centrifuge without locking rotor to axis of centrifuge.

(The rotor might dash out. )

Do not centrifuge when the cap of the rotor removing.

(The rotor might dash out. )

Don't centrifuge without applying rotor.

(The centrifuge breaks.)

Do not shake the rotor on the axis.

(Please do not add force to the axis as much as possible. )

Do not turn off power while made to the vacuum.

(The vacuum pump oil enters the chamber. )

Do not return without filling in the note.