

# Beckman Optima Max Ultra-centrifuge Protocol

Maximum Speed: 130,000 rpm.

Minimum Speed: 5,000 rpm.

Run Temperatures: 0 to 40 °C

**FIRST!** Sign in the booking diary and record rotor used, speed, comments etc.

Manual Run:

1. Turn on power switch (about 15 minutes in advance if cooling required).
2. Press the DOOR key to unlock the chamber door and slide the door open.
3. Install the rotor containing the balanced samples and close door.  
NOTE: when installing the TLA 100.3 rotor, the centre button (on the rotor lid) needs to be pressed lightly so that it stays down. The other rotors automatically lock when placed in the chamber.
4. Press the SPEED key and then use keypad to enter run speed.
5. Press the TIME key and then use keypad to enter run time.
6. Press the TEMP key and then use keypad to enter run temperature.
7. Press the ACCEL key and then use keypad to enter selected acceleration rate 1 to 9. Or skip this step; defaults to max acceleration.
8. Press the DECEL key and then use keypad to enter selected acceleration rate 1 to 10. Or skip this step; defaults to max deceleration.
9. Check that all parameters are correct and that the door is closed.
10. Press ENTER/DISPLAY and then press START.
11. Watch the centrifuge until the VAC light goes off.
12. At the end of the run, wait for the set time to count to zero or end the run by pressing STOP.
13. When the rotor stops a tone sounds. Press DOOR to unlock the chamber and slide the door open to remove the rotor.
14. After use, wipe chamber and leave door slightly open to allow drying.

Programmed Run:

As above except press the PROG key to select programme number. To save a programme press the SAVE PROG key after the parameters have been entered. To delete a programme, the two DEL keys must be pressed simultaneously.

## Rotors available;

<b>Rotor</b>	<b>Rotor Volume</b>	<b>Tube Capacity</b>	<b>Max Speed (rpm)</b>
TLA 100.3	21ml	3.5ml (6 x 3.5)	100,000
MLA-80	64ml	8ml (8 x 8)	80,000
MLA-130	20ml	2ml (10 x 2)	130,000