

PCR specifications

96-well Gradient Thermal cycler

1. Should have a sample capacity of 96x0.2ml tubes, 0.2ml tube strips or 1x96-well plate with Peltier heating and cooling.
2. Should have gradient capability
3. Should have the feature of dynamic ramping (identical hold times) for all the 8 rows of gradient.
4. Should have a temperature differential range of 1-25degC across the rows.
5. Should have intuitive 5.7" (14.5 cm) touch screen interface which can displays graphics in high resolution for easy programming.
6. The touch screen should be responsive for both gloved and ungloved fingers.
7. Should be capable of running reaction volumes from 1-100ul.
8. Should have a maximum ramp rate of 4 degC/second.
9. Should have a temperature range of 4-100 deg C
10. Should have a gradient range of 30-100 deg C
11. Should have a temperature accuracy and uniformity of ± 0.5 deg C
12. Should have a memory of >500 programs with further expansion through a USB Flash drive for transfer of files.
13. Should have block and calculated temperature control modes.
14. The software should be capable of exporting Run logs and system error logs
15. Should have quick boot up time of not more than 1 min.
16. System should be quoted with tissue homogenizer 12000 rpm for sample preparation for PCR.
17. System should provide with green PCR master mix 200 rxn and 100 rxn of 100 bp plus DNA ladder with orange G dye and necessary consumables at the time of installation.
18. (European/US) CE and EN 61010 certified.
19. Should provide 3 year user list for performance satisfaction.

