

Real Time PCR Specification

- Complete system including basic system, essential accessories, the state-of-art computer workstation, acquisition and analysis software, startup kit inclusive of calibration standards etc.
- One system to accommodate Taqman, SYBR green, all other fluorescent dye-based chemistries and should have separate filter option for High Resolution Melt Curve analysis.
- Rotor based to accommodate upto 100 sample.
- Standard optical 0.2 ml & 0.1ml strips & tubes compatibility.
- Min sample volume requirement is 10 μ l.
- Should have ramping rate of 15-20 $^{\circ}$ C/Sec or more
- PMT detector with LED and five excitation and emission filters.
- Multiplexing ability five dyes or more in a single run.
- Calibrated dyes at installation: FAM/SYBR Green, VIC/JOE, NED/TAMRA/Cy3, ROX/Texas Red, and Cy5 should offer flexibility in dye selection.
- Facility to calibrate new dye within the wavelength range without addition of new filters.
- Passive reference dye ROX or any other calibrated dye and should be optional.
- Option for High resolution melt curve analysis with both hardware & software features.
- Temperature range ambient to 100 $^{\circ}$ C Uniformity must be less than $\pm 0.02^{\circ}$ C
- Sensitivity: Detection of 1 copy of template.
- Software applications: Comparative Ct, Standard Curve, Relative Standard Curve, Allelic Discrimination/ SNP Genotyping, Plus/Minus, Dissociation/ Melt curve and High-resolution melt curve.
- System should come with unlimited user license for software (including HRM software).
- Power: 220V/50Hz. All accessories CE mark or equivalent.
- PC with preinstalled original compatible software should come for smooth and proper running of the equipment. Software should have multiple license to use with other system as well.
- Warranty: 1 year minimum.

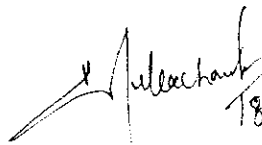
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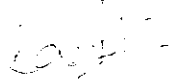
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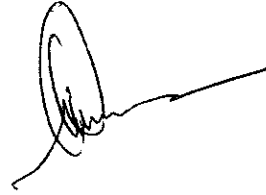
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For rapid COVID testing kits Any kit from list of ICMR approved rapid kits will work as submitted earlier .




18-4-20
Dr (Prof) H. REBACHANDER





Automated Nucleic Acid Purification System

- The instrument should be designed to perform fully automated walk away system for the purification of nucleic acids and proteins for research use in molecular biology applications.
- Up to 12 samples can be processed per run using spin-column technology. The instrument controls integrated components including a centrifuge, heated shaker, pipetting system, and robotic gripper.
- The instrument is preinstalled with a range of protocols for purification of RNA, genomic DNA, plasmid DNA, viral nucleic acids, and proteins, plus DNA and RNA cleanup.
- An integrated TFT touchscreen simplifies protocol selection and clear on-screen messages should be available to guide the user through worktable setup. PC requirement should be optional to operate the system.
- A comprehensive load check must be available with the system to check worktable setup and to help to ensure correct loading of the instrument.
- Instrument should come with convenient and efficient full worktable decontamination with the built-in UV light
- Sensor should be available to automatically detects the number of samples in the shaker, and to check the reagent bottle rack to make sure that it is correctly loaded and that there is enough buffer in the reagent bottles
- The fully integrated centrifuge must have equipped with 12 swing-out buckets, each of which can hold a disposable rotor adapter. Up to 12 samples can be processed per run.
- Manufacturere should support with proven spin coloumn technology kits as per requirement.
- Service and traing will be provided by the vendor free of cost.

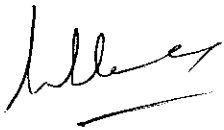
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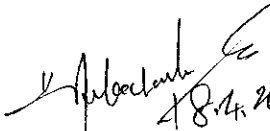
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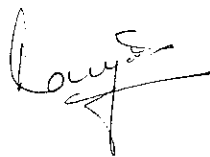
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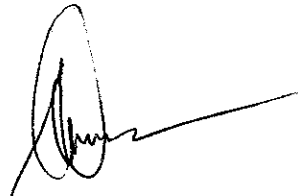
Specifications for Bisafety cabinet Class II, Type A2

- Size of 3 ft or 4 ft
- Controller – Microprocessor controller with digital display Inflow
- Noise level less than 65 dba
- Filter - HEPA filter 99.999% efficient which should be easily removable for servicing
- Exhaust / inflow air volume, recirculated 255 to 342 (cfm)
- Exhaust volume, 332 to 444 (cfm)
- Transparent hinged wind screen, preferably foldable to shield the user against the dry air flow
- Display for safety and performance data.
- Melamine or stainless steel top
- UV disinfection light fitted into the top of the work space




18.4.20
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Specifications for Microcentrifuge for PCR work

- Small, compact table top model
- No noise
- Built in power supply
- Fixed speed of 2000g
- Rotor for 1.5 ml tubes and for 0.2 ml tubes in strips
- Warranty of 5 years

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