

## TECHNICAL SPECIFICATIONS

### ELISA READER AND WASHER

- 1 Filter based ELISA reader with halogen lamp as light source and silicon photo detectors.
- 2 Should have a linear measurement range of 0 to 6 Abs
- 3 Should compatible to wavelength range from 340 to 850 nm.
- 4 Should have a photometric accuracy of  $\pm 2\%$  or better
- 5 Should have a resolution of 0.001Abs
- 6 Should have variable speed plate shaking capability
- 7 Should have easy access 8 position filter wheel
- 8 Machine should be supplied with 4 standard filters of User choice
- 9 Should have automatic filter selection option
- 10 Should have automatic calibration before each reading
- 11 Should able to read 96 well format in 6 seconds
- 12 Capable of doing multi standard tests and controls
- 13 Should be capable of reading U,V and flat type wells.
- 14 The instrument should run in stand- alone mode OR with computer & software controlled.
- 15 System should have USB port for external printer connectivity option for data printout.
- 16 Software CD should have unlimited user licence to analyze the data in different user/ computer systems.
- 17 Instrument should be either CE mark, IVD/ FDA or Europe regulations

#### **Data Analysis Software :**

- I. Analysis software should be supplied with the instrument and has unlimited user system license. Software should have inbuilt calculation, such as Blank Subtraction, Quantitative Curve Fit, Quantitative Classification , Spectral Analysis and Kinetic Calculation , as well as a comprehensive reporting tool.
- II. Both measured and calculated data can also easily be exported to other systems like Microsoft Excel for further data handling
- III. User should be able to load the software in to multiple computer systems for data analysis
- IV. Software should have option for area selection i. e. different protocols at different area of the same plate
- V. Database based software to run backups of all data, restore backup data (in case of hardware failure of original computer)
- VI. Supplier should quote for the following accessories : UPS, Computer with Printer
- VII. Firm to give 3 years guarantee and rates for 5 years CMC.

#### **Technical specification of item Washer**

- I. Semi- automatic Micro plate ELISA washer with co-axial wash heads for excellence washing & can be switched between 8 to 12 way wash heads.
- II. Should be supplied with at least 4 standard program cards (1-4 washing cycles) & one programmable card for user defined program
- III. Dispensing precision should be at least 5 %
- IV. Should be supplied with one wash bottle & one waste bottle of 2 lt capacity each
- V. Residual aspiration volume < 5 ul
- VI. Firm to give 3 years guarantee and rates for 5 years CMC



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