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DEPARTMENT OF BIOCHEMISTRY

Sealed quotations are invited for the supply of Nanospectrometer (as per specifications given below). All quotations must be marked "Nanospectrometer: UGC SAP Project-Biochemistry" and should be addressed to :

The Coordinator, UGC SAP Project, Department of Biochemistry, University of Allahabad, Allahabad 211002

Quotations must reach the Biochemistry department within 10 days of the upload of this query on the Allahabad University website.

Authorization letter from the company should be enclosed

Technical Specification for NanoSpectrometer for quantification of Biomolecules

Preferred makes: Thermo Fisher Scientific / Eppendorf

Compact UV – VIS spectrometer for wide variety of procedures for the most diverse molecular biology, cell biology and biochemical methods.

Optical system
Light Source

Absorption UV – VIS spectrophotometer with reference beam
Xenon flash lamp

Wavelength range
Wavelength Selection
Spectral bandwidth
Wavelength increment

200 nm to 800 nm
Method-dependent, freely selectable
≤4 nm
1 nm

Photometric measuring range
Photometric reading accuracy
Random photometric error
Systematic photometric error
Cuvette type

0.0 to 3.0 A at 260 nm
 $\Delta A = 0.001$
 ≤ 0.002 at $A = 0$, ≤ 0.005 (0.5%) at $A = 1$
 $\pm 1\%$ at $A = 1$

Should be Supplied with Nanolitre Cuvette for Sample Volume 2ul.also to Accommodate plastic disposable for sample Volume 50 ul or more.

Methods

- Absorbance with one or more wavelengths, scans
- Nucleic acids, Proteins, OD 600, dye labeling
- Evaluation via factor, standard and calibration curve
- Dual wavelength with subtraction and division evaluation
- Absorbance, concentration via factor and standard
- Linear regression, Nonlinear regression with 2nd and 3rd degree polynoms
- Ratio 260/280, 260/230, molar concentration and total yield for nucleic acids
- Frequency of incorporation of Cy3, Cy5 dyes and labeling density
- Spectral zoom and peak evaluation for scans

Method dependent evaluation

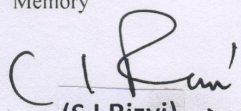
Display
Interfaces

Inbuilt > 5 inch display or compatible computer system
USB master for USB stick; USB slave for connection to PC; port for thermal printer

Memory

> 100 method programs on the instrument
> 1000 results with data, evaluation results and used Parameters.

Should be Supplied with 1 Kva offline UPS with 1 hr. backup.


(S I Rizvi) 8/6/17

Coordinator

SAP-DRS, Department of Biochemistry
University of Allahabad