



All India Institute of Medical Sciences Jodhpur

Admn/Prop/15/2021-AIIMS.JDH

Dated: 20th May 2021

Subject: Purchase of Nano-Drop Spectrophotometer for the VRDL Project for the Department of Microbiology at AIIMS, Jodhpur on proprietary basis - **Inviting comments thereon.**

The Institute is in the purchase of Nano-Drop Spectrophotometer for the VRDL Project for the Department of Microbiology at AIIMS, Jodhpur from M/ Thermo Fisher Scientific 5225 Verona Road, Madison WI 53711 USA on proprietary basis. The proposal submitted by M/s Thermo Fisher Scientific, USA and PAC certification by user are attached.

The above document are being uploaded for open information to submit objection, comments, if any from any manufacturer regarding proprietary nature of the equipment within 21days of issue giving reference Admn/Prop/15/2021-AIIMS.JDH. The comments should be received by office of Deputy Director (Admin), Medical College at AIIMS, Jodhpur on 10th June 2021 upto 03:00 PM failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

Yours faithfully,

Deputy Director (Admin)

Enclosed: Related documents enclosed.



All India Institute of Medical Sciences Jodhpur

ThermoFisher
SCIENTIFIC

The world leader
in serving science

7 December, 2015

Dear Valued Customer,

This letter serves as notification that Thermo Fisher Scientific is the sole source provider of the Thermo Scientific™ NanoDrop™ One and the NanoDrop™ One^C UV-Vis microvolume spectrophotometers. The NanoDrop One instruments are full spectrum spectrophotometers that can quantify and qualify RNA, DNA and protein samples in seconds using only 1-2 microliters of sample.

The NanoDrop One Spectrophotometer delivers the following differentiating benefits and features:

1. Is a standalone instrument with local control and a high resolution touchscreen interface. Touchscreen display accommodates front to back tilt and left to right slide adjustments.
2. Uses a patented (US patents 6,628,382 and 6,809,826) sample retention system that enables direct measurements of sample loaded directly onto a polished stainless steel pedestal and allows for easy cleaning with no carryover using a laboratory wipe.
3. Supports the following applications: Nucleic Acid A260, (includes A260/A280, A260/A230 purity ratio information) and Microarray (labeled nucleic acids); Protein A280, Protein A205, Protein Pierce 660, Protein Bradford, Protein BCA, Protein Lowry, Proteins and Labels (labeled proteins), OD600, Kinetics*, UV-Vis*, and Custom Methods.
4. Measures 1-2 μ L of high- and low-concentration samples without need of containment devices like cuvettes, slides, chips, and accessories.
5. Auto-ranging multi pathlength technology allows for measurement of highly concentrated samples (e.g. up to 27,500 ng/ μ L dsDNA and 400 mg/mL IgG) and eliminates the need for sample dilutions.
6. Uses an embedded image sensor to provide digital image analysis monitoring for bubbles and broken sample columns.
7. Includes Auto-Blank and Auto-Measure options for increased efficiency.
8. Introduces Thermo Scientific™ Acclaro™ Sample Intelligence technology that can identify certain contaminants in nucleic acid and protein samples; reports corrected concentration of analyte.
9. Delivers valuable information about sample purity through guided troubleshooting and embedded technical support.
10. Provides PC software for viewing and analysis of measurement data collected on the local control.
11. Offers enhanced connectivity with via USB, Ethernet, and Wi-Fi* and Bluetooth*.

In addition to the features described above, the Thermo Scientific NanoDrop One^C Spectrophotometer also offers:

1. An optional cuvette position for measuring dilute samples and performing kinetic experiments.
2. Ability to make cuvette measurements with the instrument arm up or down.
3. Temperature control and stirring in the cuvette position.

Sincerely,

Voula Kodoyianni, Ph.D.
Product Manager

*coming soon

**Wi-Fi Connectivity available in certain countries. If available, your instrument is capable and includes the necessary circuitry. This feature will be enabled via future software download

Chemical Analysis Division
Molecular Spectroscopy

5225 Verona Road

Madison, WI
53711

877-724-7690

www.thermofisher.com



TECHNICAL SPECIFICATION OF NANODROP SPECTROPHOTOMETER

Computer Controlled low volume UV-VIS Spectrophotometer with following specifications

Wavelength Range: 190-850 nm or better

Minimum Sample Size: 1 μ L

Pathlength: (auto-ranging 0.03 to 1 mm)

Light Source: Xenon flash lamp

Detector Type: 2048-element linear silicon CCD array

Wavelength Accuracy: +/- 1 nm

Spectral Resolution: <1.8 nm (FWHM @Hg 254 nm)

Absorbance Accuracy: \pm 3% (at 0.97 absorbance at 302 nm)

Absorbance Range: Pedestal-0-550 A (10 mm equivalent) Cuvette: 0-1.5 A

Detection Limit : Pedestal: 2 ng/ μ L dsDNA, Cuvett :0.2 ng/ μ L

Maximum Concentration: 27,500 ng/ μ L (dsDNA)

Measurement Time: < 8 seconds

Sample pedestal Material of Construction: 303 stainless steel and quartz fiber

Touch Screen: 7 inch colour display, android based Quad Core ARM Cortex A-9 Processor

Internal Storage: 32 GB flash Memory

Audio : Built in Speaker

Software should have feature to identify the contaminants in the sample and report a corrected concentration. It should also detect the bubbles and anomallers in the sample column.

Options should also be available for use with cuvette measurements:

Pathlength : 0.03 to 1 mm (auto ranging).

Stirrer speed : Nine speed settings.

Heater : 37 $^{\circ}$ C Heating facility of cuvette holder shall be offered with the accuracy of \pm 0.5 $^{\circ}$ C.

When selected, the current temperature of the cuvette shall be displayed at software screen.

Heating Time : 1-10 minutes for the cuvette holder to reach 37 $^{\circ}$ C.

Windows based software shall be offered to display data in graphical form and numerical form.

Powerful, user-friendly software with ten preconfigured modules and method editor.