Admn/Prop/71/2021-AIIMS.JDH   Dated: 17th November 2021

Subject: Purchase of NanoDropTM OneC UV-Vis Microvolume Spectrophotometer for the Extramural Research Project at Research Section at AIIMS, Jodhpur on proprietary basis - **Inviting comments thereon.**

The Institute is in the purchase of Nano-Drop Spectrophotometer for NanoDropTM OneC UV-Vis Microvolume Spectrophotometer for the Extramural Research Project at Research Section 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/71/2021-AIIMS.JDH. The comments should be received by office of Deputy Director (Admin), Medical College at AIIMS, Jodhpur on 08th December 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.**

Thermo Fisher
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 μL 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/μL 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

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Specification for Nanodrop[tm] ONE[C] UV-Vis Micro Volume Spectrophotometer

1. It should have wavelength range from 190-850 nm or better.

2. Minimum sample size should be 1 μL.

3. Path length should be auto-ranging from 0.03 to 1 nm.

4. Light source should be xenon flash lamp.

5. Detector type should be 2048-element CMOS linear image sensor.

6. Wavelength accuracy should be +/- 1 nm.

7. Spectral resolution should be <1.8 nm (FWHM @Hg 254 nm).

8. Photometric accuracy should be ± 3% (at 0.97 absorbance at 302 nm).

9. Photometric range of pedestal should be -0-550 A (10 mm equivalent).

10. Detection limit of pedestal should be 2 ng/μL for dsDNA and for BSA (IgG) should be 0.06 (0.03) mg/mL.

11. Detection limit of cuvette should be 0.2 ng/μL for dsDNA and for BSA (IgG) should be 0.006 (0.003) mg/mL.

12. Maximum concentration of pedestal should be 27,500 ng/μL for (dsDNA) and for BSA (IgG) should be 820 (400) mg/mL.

13. Measurement time should be approx. 8 seconds.

14. It should have provision of pedestal estimation as well as cuvette measurement mode.

15. Sample pedestal material of construction should be 303 stainless steel and quartz fiber.

16. It should have 9 speed stirring and heating facility at 37 °Cof cuvette holder that will help to analyze sample for kinetics application.

17. It should be equipped with touch screen of 7 inch with 1280 × 800 high-definition colour display, android based Quad Core ARM Cortex A-9 Processor, Multipoint capacitive touch, Gesture Recognition : Single point, single point hold, swipe and pinch compatible with lab gloves and built-in speaker.

18. It should have connectivity with three USB-A ports, Ethernet, Bluetooth and Wi-Fi.

19. PC Software requirements should have Windows® 10, 64 bit.

20. Internal Storage should be 32 GB flash memory.

21. It should be equipped with built in speaker.

22. Software should have feature to identify the contaminants in the sample and report a corrected sample concentration.

23. It should also detect the bubbles and other anomalies in the sample column. Software should provide instant feedback about sample quality with on-demand technical support for guided troubleshooting.

24. Application Support : Nucleic Acid A260, A260/A280, A260/A230 and Labeled Nucleic Acids; Protein A280 and A205, Protein Pierce 660, Protein Bradford, Protein BCA, Protein Lowry, Labeled Proteins, OD600, Kinetics, UV-Vis, and Custom Methods.

25. It should come with standard 5 years warranty.