Nanodrops

(3)

## **Specification**

- 1. Analytical instrument for DNA, RNA, RNA IQ and protein quantification with a small bench topfootprint and 5.7" touch screen intuitive user interface.
- 2. Instrument should use as little as 1  $\mu$ L of sample.
- 3. Instrument should have a sensitivity range for dsDNA of 0.5 ng/mL (10% CV) or better.
- 4. Instrument should have Dynamic range† (dsDNA) of 0.5 ng/mL to 5 μg/mL or better.
- Instrument should be able to accurately measure both DNA and RNA in the same sample.
- 6. It should be able to accurately quantify DNA in samples with concentrations as low as 10 pg/ $\mu$ L or lower than that.
- 7. It should be able to cover a sample concentration range of 10 pg/ $\mu$ L to 1  $\mu$ g/ $\mu$ L DNA.
- 8. It should have reagent calculator that quickly generates working solution calculations.
- It should be able to measure intact vs degraded RNA in less than 10 seconds' sample read time.
- 10. Instrument should be able to provide on board RNA IQ Integrity and Quality values.
- 11. It should be able to accurately and selectively quantify DNA, RNA or protein in seconds persample.
- 12. It should be able to accurately measure viable RNA with new RNA IQ kit in seconds per sample.
- 13. It should be able to store up to 1,000 sample results with 4GB space and should be upgradable tohave Wifi in future.
- 14. Instrument should not require external computer for data analysis.
- 15. It should come up with LED as light sources with excitation and emission filters as below. Excitation: 430–495 nm, 600–645 nm Emission: 510–580 nm, 665–720 nm.
- 16. warm up time should be less than one minute.
- 17. Start kits for RNA, DNA and protein should be provided.
- 18. The equipment must be ISO/CE/ISI/FDA (USA) compliant with certification proof of current validity of the quoted model.
- 19. System should have at least one years of warranty.