

Corrigendum

In Tender Document Tender Enquiry NO. 24/Micro/CD4/Flowcyto/521/2019-Rish(Admn)

Dated: 09/09/2019

Due to logistic constraints and specific departmental requirements the technical specification needs to be modified. The new specifications should be read as below:

Technical Specification for Flow Cytometer Analyser

1. A bench-top flow cytometer for simultaneous measurement of 6-parameters, 4 fluorescent colours and 2 scatters, with capability of upgrades to higher configuration to measure additional parameters.
2. The system should be provided with photomultiplier tubes (PMTs) for fluorescence detection to achieve best resolution even for dimly stained population.
3. The system must have fixed aligned optics for sustained experiment-to-experiment reproducibility.
4. System should be equipped with highly efficient collection optics to avoid signal loss along with user changeable filters.
5. System laser should be turned on only when acquiring samples, to reduce their usage and prolong laser life.
6. System must be equipped with high quality quartz flow cell cuvette to minimize clogging issues
7. System should be able to achieve fluorescence resolution of CV <3% for propidium iodide (PI)-stained chicken erythrocyte nuclei (CEN) at all flow rates.
8. Sample flow rates should be user adjustable over a wide range. (sample flow rate range must be clearly specified).
9. System should use small amounts of sheath fluid preferably less than 2-3 L/day in normal usage, helping to minimize fluid expense and waste disposal costs.
10. System should have ability to give accurate absolute cell counts without the use of reference counting-beads and additional accessory.
11. System should be compatible with sample loading up to 5ml tube (preferably 1.5ml/2ml/5ml tubes) and should have upgradability feature for high throughput sampler for acquiring samples from a 96- and 384-well microtiter plate with individual sample mixing.
12. System should be equipped with automated fluidics system and fluidics monitoring system.
13. System must be upgradeable to perform upto fourteen or more fluorescence (colours) simultaneously with additional lasers.
14. System should be able to acquire 25,000 to 35,000 events per second for rare events analysis.
15. System should have data management system, relevant software for acquisition and analysis.
16. System should be provided with the software capable of baseline settings of system performances to provide automated instrument setup.
17. System should be provided with the software capable of eliminating cell doublets by employing pulse height, area and width for at least forward and side scatter.
18. System software should include multiple plot types including dot plots, density plots, precedence density plots, and histogram plots that include linear, logarithmic and hybrid display.
19. System software have automatic compensation feature with ability of compensating data in real time and post-acquisition.

20. System software should have ability to copy and paste data plots to Microsoft PowerPoint and Word documents.
21. System software should have import and export capabilities for single or multiple experiment files, in FCS format with compatibility to FCS 3.0 & FCS 3.1.
22. System should preferably have software driven sample recovery feature.
23. All maintenance functions, including unclog, de-bubble, and system decontamination, should be fully automated in the software, minimizing hands-on time.
24. 200 tests for CD4 and CD8 counts with all necessary reagents and consumables (tips/pipettes) is to be supplied with the quality control beads.
25. System should be provided with suitable PC Workstation with Intel Core™ i7 processor (or higher), 32 GB RAM, 4 TB Hard-drive and 23" flat panel Monitor (1,920 x 1,200 resolution). The workstation should be from the source; no local supply hardware, and should include latest and original licensed software.
26. One Online 3 KVA UPS with minimum 30-minute backup should be quoted with the instrument.
27. A sturdy, anti-vibration compatible (to keep the machine, accessories safely) table with necessary lockable drawer etc. must be provided.
28. Automated micro pipette (3 numbers) of reputed make with warranty certificate to be provided.
29. Vortex mixture & minifuge (one each) of reputed make to be provided.
30. Should be BIS/FDA/CE compliant.
31. Vendor should offer technical support and field applications/sales/service support to answer technical questions, help review data, and give recommendations on how to troubleshoot results encountered with flow cytometry experiments.
32. Company/Vendor should provide maintenance services efficiently & timely so that instrument should be in working conditions during 95% of warranty and CMC period. Breakdown time in any period should not exceed 72 hours.
33. Comprehensive warranty for five years (including on laser). CMC for 5 years should be quoted post warranty, which should include complete equipment parts, computer hardware and software, printer, AC, UPS including the batteries.