



All India Institute of Medical Sciences Jodhpur

Admn/Prop/12/2020-AIIMS.JDH

Dated: -15th June 2020.

Subject: Purchase of Affimetryx Microarray analyser & Scanner for the Department of Biochemistry at AIIMS, Jodhpur on proprietary basis-

Inviting comments thereon.

The Institute is in the process to purchase of Affimetryx Microarray analyser & Scanner for the department of Biochemistry at AIIMS, Jodhpur from M/s Invitrogen BioService India Pvt. Ltd (Thermo Fisher Scientific), 372, Udyog Vihar Bhawan, Gurgaon- 122 016 on proprietary basis. The proposal submitted by M/s Invitrogen BioService India Pvt. Ltd (Thermo Fisher Scientific), Gurgaon 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/12/2020-AIIMS.JDH. The comments should be received by office of Administrative Officer, Medical College at AIIMS, Jodhpur on or before 06th July 2020 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.

Administrative Officer

Enclosed: Related documents enclosed.



All India Institute of Medical Sciences Jodhpur



Invitrogen BioServices India Pvt. Ltd
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Gurgaon - 122 016
Haryana
T+91 124 6722800
F+91 124 6722850, 6722851

Dated: 03rd December 2018

TO WHOM-SO-EVER IT MAY CONCERN

Proprietary Certificate

This is to certify that the Microarray Analyzer & Scanner (**GeneChip Scanner 3000Dx v.2 System**) having the part number P/N 00-0334 is a FDA-IVD approved and a proprietary product manufactured by M/s **Applied Biosystems brand, (Part of ThermoFisher Scientific)** with US Patent Numbers 5,936,324; 6,185,030; 6,201,639; 6,218,803; 6,225,625; 6,335,824; 6,490,533, 6,422,249 has the following proprietary/unique features combined in a single instrument system:

1. GCS 3000Dx v.2-US FDA-cleared and European CE-marked for in vitro diagnostic use for RNA- and DNA-based clinical tests -consists of GeneChip Scanner 3000Dx v.2 with autoloader, GeneChip Fluidics Station 450Dx v.2, and Workstation with Molecular Diagnostics Software
2. Its high-density probe arrays offer oligo densities as high as 106 per cm². This high-density feature is unique to Thermo Fisher Scientific.
3. Its photolithographic manufacturing technology enables consistent reproduction of probe array designs and reduces variation inherent in less sophisticated array manufacturing technologies.
4. The GeneChip probe arrays contain a fixed volume reaction chamber, which provides for automated and reproducible hybridization of samples to the array by precisely controlling temperature and washing conditions.
5. GeneChip gene expression probe arrays contain multiple unique probes designed to be Perfect- Match (PM) 25-mer oligonucleotide probe pairs to represent each mRNA transcript (full- length gene or EST cluster). The 3' gene expression probe arrays also include multiple probes designed to be Mis-Match (MM) Probe sequence representations with a purposely-incorporated homomeric mismatch to enable identification of cross-hybridization induced signal

All the features mentioned above are incorporated in Microarray Analyzer & Scanner (**GeneChip Scanner 3000Dx v.2 System**). No Microarray Analyzer & Scanner other than **GeneChip Scanner 3000Dx v.2 System** offers all the unique features mentioned above in single system.

Thanking You,
For **Invitrogen Bioservices India Pvt. Ltd.**

Virender Negi
Account Manager



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Date: 03rd December 2018

The Administrative Officer
All India Institute of Medical Sciences
Basni Industrial Area, Phase-2,
Jodhpur

Subject: Authorization

We Invitrogen Bioservices India Pvt. Limited, who are established & reputable manufacturers of **Microarray Analyzer & Scanner (GeneChip Scanner 3000Dx V.2 System)** having factories at US / Singapore / UK / Japan / Finland / Korea hereby authorize M/s Sujata Enterprises 110, Janpath Parshwanath Colony, Nirman Nagar, Jaipur-302019 to submit a bid, negotiate & conclude the contract with you against your above project of Microarray Analyzer & Scanner manufactured by us.

No company or firm or individual other than M/s Sujata Enterprises, Jaipur are authorized to bid, negotiate & conclude the contract in regard to this specific project.

We hereby extend our full guarantee and warrantee as per the terms & conditions of AIIMS Jodhpur against this project by above firm.

For Invitrogen Bioservices India Pvt. Ltd.



Virender Negi
Account Manager

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All India Institute of Medical Sciences Jodhpur

Specifications of Microarray system- qty-1

1. The microarray platform should be regulatory cleared for diagnostic use & clinical applications.
2. The platform should be FDA-IVD & CE-IVD cleared for microarray based clinical tests.
3. Microarray System should be able to process pre-optimized & manufacture microarray chips, reagents and consumables for all the major applications including Genotyping/Copy Number Analysis, Drug Metabolism/pharmacogenomics Analysis, Molecular Cytogenetics, Targeted Resequencing Analysis, 3' IVT Expression Analysis, miRNA gene regulation Analysis, Whole-Transcript/exon Expression Analysis & custom assays
4. Software(s) for all the above mentioned applications should be provided along with the microarray system.
5. Microarray system should include Hybridization Oven, automated fluidics station and Scanner with **resolution down to 0.51µm**.
6. Microarray scanner should be able to scan **high density arrays** (up to 6 Million features).
7. Scanner should have a superior sensitivity of less than **0.5 chromophore equivalents/µm² (CPSM)**.
8. Scanner should have patented technology for optimal image uniformity and collection efficiency across entire scan area.
9. Scanner should have the integrated Barcode Reader.
10. Scanner should have minimum dynamic range of 16 Bit.
11. Hybridization Oven should be capable of processing up to 64 arrays at one time.
12. Hybridization Oven should have Temperature Range from Ambient +5 °C to 70.0°C, should be programmable to 0.1°C.
13. The automated fluidics station should be capable of handling 4 arrays simultaneously for staining, destaining and washing for error free performance of this critical step.
14. The offered technology should use unique combination of perfect match (PM) and a mismatch (MM) probe for identifying and subtracting nonspecific hybridization and background signals.
15. The vendor supplying the instrument should have its own fully functional Microarray Application Support laboratory in India for efficient after sales service-support. The address of the Application Lab should be clearly mentioned.
16. The offered system should be backed by large number of catalogue arrays (ready-to-order arrays), for above mentioned applications.
17. The system must be backed by significant number of **Publications** of International repute.
18. On-site training should be provided after the successful installation of the instrument.
19. Suitable UPS with 30 min backup

Software:

1. The software should analyze gene expression data, generate fold change with statistical significance, pathway analysis & miRNA expression analysis.
2. The software should generate genotyping calls, copy number calls for CNV regions and individual probe sets, loss of heterozygosity (LOH) data, cytogenetic analysis, cluster graphs and quality control metrics.
3. The software should give highly accurate, automated SNP allele calls for the Genotyping assay.
4. The software should summarize chromosomal aberrations across the genome.
5. The software should be able to perform focused analysis on specific regions of known significance.

Dk Puri

Shing Indu S. Qureshi

Ashwini
02/05/19
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