



All India Institute of Medical Sciences Jodhpur

Admn/Prop/97/2021-AIIMS.JDH

Dated: 31st January 2022

Subject: Purchase of Cell Imaging Multimode Microplate Reader for the R'VRDL Project at AIIMS, Jodhpur on proprietary basis - **Inviting comments thereon.**

The Institute is in the purchase of Cell Imaging Multimode Microplate Reader for the R'VRDL Project at AIIMS, Jodhpur from M/s BioTex Instruments Inc., Highland Park, P.O.Box 998, Winooski, Vermont 05404-998, USA on proprietary basis. The proposal submitted by M/s BioTex Instruments Inc, 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 07days of issue giving reference Admn/Prop/97/2021-AIIMS.JDH. The comments should be received by office of Deputy Director (Admin), Medical College at AIIMS, Jodhpur on or before 08th February 2022 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.



BioTek Instruments, Inc.
Highland Park, P.O. Box 998
Winooski, Vermont 05404-0998 USA

Phone: 888-451-5171
Fax: 802-655-7941
Outside the USA: 802-655-4740
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May 5, 2021

TO WHOM SO EVER IT MAY CONCERN

PROPRIETARY CERTIFICATE

This is to state and confirm that Cytation Cell Imaging Multimode Microplate Reader is our proprietary product & to best of our knowledge we being the only manufacturer This intellectual property is protected by the US patent 9,557,217 for imaging and microplate reading in one instrument.

Features being - True automated digital Microscopy (Fluorescence and High Contrast Brightfield) and Multi-mode detection in one system. Have multiple Microscope objectives capacity (6 or more).

Multiple microscopy color channels (up to 4 channels) – DAPI, Texas Red and more. 1.25x to 60x magnification cover broad imaging applications. 16-bit Cmos camera for dynamic range of >65,000 fluorescence units. compatible with 6- to 384-well microplates for Detection and 6- 1536 for Imaging, Microscope slides and T25 cell culture flasks.

Imaging methods – Single color, Multi-color, montage, time lapse, Z-stacking.

Image processing including stitching, z-projection and digital phase contrast.

BioTek Instruments, Inc.

Steven Fisher
Regional Sales Manager – Asia Pacific / Middle East / Africa





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SR. No.	YOUR SPECIFICATIONS <u>Technical specifications for Multimode Reader with Imaging.</u>
1.	The machine should have the following detection modes in One Machine ; UV-VIS absorbance ,fluorescence Intensity, Luminescence (glow) ,Time – resolved fluorescence fully Monochromatic based machine with Fluorescence Imaging in One unit /machine .
a.	absorbance Range -250-950 nm Quadruple monochromator based with 1nm increment read method should include endpoint kinetic, spectral scanning well area scanning capacity to measure OD Range 0- 4.0 OD Detector for absorbance –photodiode.
b.	Fluorescence Intensity ; 250-700 nm Quad Monochromator based Reading method; with the top and bottom probe Detector-PMT with variable bandwidth from 9-50 nm with 1 nm Increment.
c.	Luminescence 300-700 nm –Monochromator Detector—PMT
d.	TRF Detector—PMT Light source –Xenon Lamp
2.	Light source for absorbance and fluorescence ;; Xenon flash lamp
3.	The machine should have shaking modes available i.e. linear and orbital, (double orbital for cell clumping)
4.	Temperature control; incubation at ambient temperature (4 deg to 65 deg) with condensation control.
5.	Plate compatibility; should be compatible with a broad range of plates including 6- well, 12 well 24 well 48,well 96 well 384 well low volume plates.
6.	The machine should have the capability to estimate nucleic acids (DNA/RNA) in 2-3 microliter sample volume with cuvette slots.
7.	The machine should have imaging capability with the following features; imaging camera; 16- bit gray scale, sony CMOS.
8.	Should have the capability to image 6- well ,12 well 24 well 48,well 96 well 384 well ,1536 micro plates and microscope slides, Petri and cell culture dishes with suitable adapters, T25 FLASK
9.	Imaging method; single colour image capture, image Zoom, Image Zoom image focus , Z stacking montage, Z- stacking & time lapse imaging , time lapse imaging ,image stitching.
10.	Colours; DAPI and GFP, Texas Red , Bright field & with a provision to add at least 4 or more colours for imaging LED :- 365 nm and 470 nm, 570nm Light source ; High power LED

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11.	The instrument should be supplied with 4x , 20x, 60x objective lens, and should have the capacity to hold at least 6 or more objectives lenses Imaging & detection should be done in same instrument with single software control for both detection and imaging .
12.	a. The instrument should be supplied with all in one branded computer with SDD hard disk or imported computer by OEM with capability of Doing High Resolution Imaging and Detection b. Software integrated system – to have data acquisition, analysis and management capabilities should allow cross-plate analysis and custom calculations software should be upgradable free of cost during the life time of the instrument and should be supplied with minimum 3 software licenses.
13.	CO2 & O2 controller should be supplied for live cell imaging in same system .
14.	Provide all cables/ accessories for operating the equipment and use all features. The machine should have the provision for future upgradation of the following features
15.	a. There should be a provision for at least 10-15 more fluorescence colors options such as phycoerythrin, YFP, Aridine Orange, RFP, CY5, Chlorophyll A, CY7, Alexa 568 CFP.
	b. Machine should be upgradable to higher software with a capability of software should be upgradable free of cost during the life time of the instrument and should be supplied with minimum 3 software licenses.
	c. Option for automated Incubator and Microplate stacker. Machine should be upgradable to add Injectors for flash luminescence and ATP assays. FLOURENCE POLARIZATION AND HTRF.
16.	The machine should be CE (Europe) /UL/EMC/ESA certified
17.	Warranty: 5 Years from date of installation

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