

TRANSLATIONAL HEALTH SCIENCE AND TECHNOLOGY INSTITUTE
NCR Biotech Science Cluster, 3rd Mile stone, PO Box.04,
Faridabad-Gurgaon Expressway
Faridabad-121001

Ref.No. THSTI/NIT/15 /18-19

03 Oct 2018

Subject: Purchase of UCP Reader on proprietary basis-
For Inviting offers /objections/ comments thereon.

The request has been received from Dr Gaurav Batra, Assistant Professor of THSTI to purchase the subject items from M/s Labrox Qy on proprietary basis. The copy of United States Patent submitted by M/s Labrox Qy, Turku, Finland is attached.

The documents are being uploaded for open information to submit offers/objections/ comments, if any, from any manufacture regarding proprietary nature of the equipment/item giving Reference No. THSTI/NIT/08/17-18. The comments may be emailed to purchase@thsti.res.in or submitted by speed post/courier at the under mentioned address on or before **13 Oct 2018 up to 1500 Hrs.**, failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

In case of submission of offer, acceptance to the terms and conditions attached overleaf should be submitted along with offer.

To Be Submitted To

Section Officer (Stores & Purchase)
Translational Health Science and Technology Institute
3rd Mile Stone, Faridabad-Gurgaon Expressway, Faridabad – 121001
Phone: +91-129-2876432

Section Officer (S&P)

Encl:

1. US Patent No.US 9,354,173 B2
2. Specifications of equipment
3. Terms and conditions

TERMS AND CONDITIONS

1. We are interested in the material ready in stock. Rates should include packing and forwarding charges (DDP). The goods should be insured against any theft, loss or breakage during transit.
- 2.0 **Warranty**
 - 2.1 The Supplier warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and those they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect arising from manufacturing, design, materials or workmanship (except when the design and/or material is required by the Purchaser's Specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination. **The warranty should be comprehensive and on site.**
 - 2.2 This warranty shall remain valid for three years after the Goods or any portion thereof as the case may be, have been delivered, installed & commissioned and accepted at the final destination indicated in the Contract.
 - 2.3 Warranty period shall be three years from date of successful installation of equipment. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier's discretion shall apply making such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at supplier own cost and expense and to carry out further performance tests. **The warranty should be comprehensive on site.**
 - 2.4 **If during the period of warranty any component or spare part is needed to be imported, all associated cost for replacement shall be borne by the supplier including the cost of customs duty, customs clearance charges etc.**
- 3.0 **Performance Security**
 - 3.1 The successful Bidder shall furnish the performance security equivalent to 5% of the cost of equipment, in the form of Bank Guarantee from scheduled bank after installation/ commissioning of the equipment(s).
 - 3.2 The payment will be released on receipt of performance security as per 3.1 above,

US Patent:



US009354173B2

(12) **United States Patent**
Yli-Koski et al.

(10) **Patent No.:** US 9,354,173 B2
(45) **Date of Patent:** May 31, 2016

(54) **MICROTITER PLATE READER APPARATUS AND DYNAMIC FILTER STORAGE**

(75) Inventors: **Antero Yli-Koski**, Piikkio (FI); **Pauli Salmelainen**, Masku (FI); **Jukka Valtonen**, Lieto (FI)

(73) Assignee: **Labrox Oy**, Turku (FI)

(*), Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 588 days.

(21) Appl. No.: 13/593,485

(22) Filed: Aug. 23, 2012

(65) **Prior Publication Data**
US 2013/0050705 A1 Feb. 28, 2013

(30) **Foreign Application Priority Data**
Aug. 24, 2011 (FI) 20115822

(51) **Int. Cl.**
G01N 21/00 (2006.01)
G01N 21/64 (2006.01)
G01J 1/04 (2006.01)

(52) **U.S. Cl.**
CPC *G01N 21/6445* (2013.01); *G01J 1/0444* (2013.01); *G01J 1/0488* (2013.01); *G01J 1/0492* (2013.01); *G01N 21/645* (2013.01); *G01N 21/6408* (2013.01)

(58) **Field of Classification Search**
CPC *G01N 21/6452*; *G01N 2021/6439*
USPC 250/227.22, 205, 458.1, 226; 356/432, 356/300, 239.1, 394-418
See application file for complete search history.

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Primary Examiner — Kara E Geisel

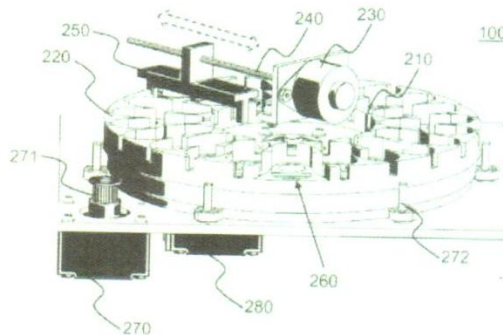
Assistant Examiner — Iyabo S Alli

(74) *Attorney, Agent, or Firm* — Ziegler IP Law Group, LLC

(57) **ABSTRACT**

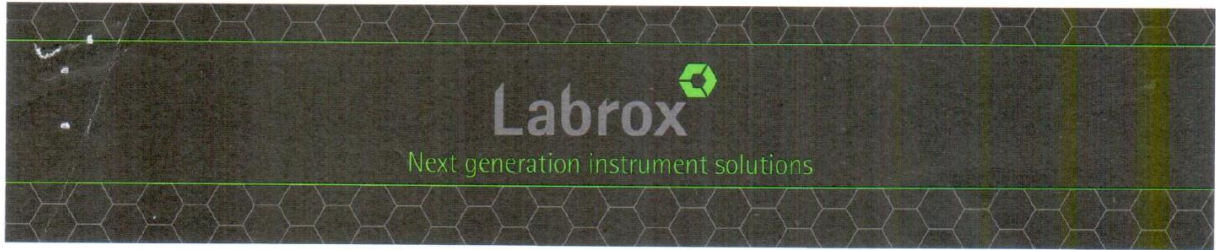
An apparatus for optically measuring samples, including a radiation source configured to form an excitation beam in an excitation channel, a detector configured to detect an emission beam in an emission channel and a filter configured to be located, in an excitation position, in the excitation channel, and in an emission position, in the emission channel. The apparatus further includes a first filter storage comprising a first set of filter storage positions, a second filter storage comprising a second set of filter storage positions, and a filter transfer mechanism configured to move the filter between the excitation position, the emission position, the first set of filter storage positions and the second set of filter storage positions.

20 Claims, 3 Drawing Sheets



Specification:

Specification for the UCP Reader



The New Pace-Setter in Detecting Upconverting Nanoparticles

The Labrox Upcon™ reader is a first-of-its-kind instrument offering versatility and high performance in assays involving upconverting nanoparticles (Upcon technology). The product is characterized by a highly intuitive user interface.

- Measures all types of plates up to 1536 well plate
- Shakes plates and has temperature control
- Upcon technology can be combined with other measurement technologies:
 - TRF, TR-FRET
 - Luminescence
 - Absorbance
 - Fluorescence
 - Fluorescence polarization

Upcon technology provides key benefits in applications that require high sensitivity. Allowing a detection limit of less than 0.01 amol/well, the method utilises:

- Anti-Stokes measurements
- Laser excitation
- Photon counting detection



In point of care (POC) applications

- Miniaturizable measurement system
- Cost-efficient design
- Custom service for your assay needs



Product development services

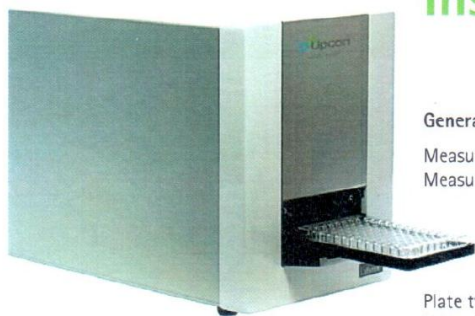
Labrox Ltd was founded in 2011, and its owners have a combined experience of 100 years in the development of various types of analytical instruments. In addition to a range of plate reader products we offer product development services, and are able to provide OEM partners with custom solutions based on existing products.

Ask for a quote at www.labrox.fi/contact or send email to ida.erling@labrox.fi.



Labrox Upcon Microplate Reader

Instrument Specifications



General

| | |
|---------------------------------|--|
| Measurement technologies..... | Upcon (Additionally FI, ABS, LUM, TRF, FP) |
| Measurement modes..... | Top / Bottom |
| | Prompt / Time resolved |
| | Endpoint |
| | Kinetic |
| | Well scan |
| Plate types..... | 1 – 1536 well plate |
| Z-focus..... | 0 – 16 mm |
| Excitation light source..... | 976 nm laser |
| Laser power..... | User adjustable |
| Emission wavelength range..... | 230 – 850 nm |
| Number of filters..... | Up to 32 |
| Number of dichroic mirrors..... | Up to 5 |
| Temperature control..... | Ambient + 3°C to 65°C |
| Shaking modes..... | Linear, Orbital, Double orbital |
| Instrument connection..... | Ethernet |

Performance

| | |
|-----------------------------------|-------------|
| Upcon sensitivity..... | < 3 pg / ml |
| Upcon detector dynamic range..... | 5 orders |

Dimensions

| | |
|-------------|----------------|
| Width..... | 200 mm / 7.9" |
| Height..... | 268 mm / 10.6" |
| Depth..... | 495 mm / 19.5" |
| Weight..... | 13 kg / 29 lbs |

Power requirements

Power consumption 100 W with temperature control on.
Mains Voltage: 110 – 230 V, 50/60 Hz

Environmental conditions

Operating conditions from +15°C to +35°C, relative humidity 80 % maximum.
Transportation and storage conditions from -20°C to + 50°C, relative humidity 5 % to 90 %.



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