JHCEHSHS STUDENT TECHNOLOGY FEE REQUEST FORM

Procedure for Submission: Form Updated: 12/10/12

1. Submitter must obtain all required information from the desired vendor(s). An official quote from the vendor must be attached.
2. Only one request per Request Form. This request must be reviewed, approved, and submitted by the requesting program's Department Chair.
3. The Dept. Chair may email this request to the Tech Fee Director. *Since some departments will have multiple requests, please rename request in the following format: Dept # (rank, 1 being the highest priority) and a brief title*

Dept. making request:	Kinesiology		Requesting Faculty:	Frank Pizza		Date Submitted:	2/1/2013

IMPORTANT: Attach an official quote from the vendor.

List one item OR group (for use as a "package") per page.

Item Name	Vendor info. (name, address, Web site URL, phone #, email, etc.)	Part or Model #	Cost (each)	Qty	Total
NucleoCounter & Cassettes	Li-Cor	See attached Quote	See attached quote	1	**27,525.00**

Course(s) where item(s) will be used	KINE 4/5560, KINE4870, KINE4910, KINE6/8560, KINE6/8550, KINE6960, KINE8960	**Expected life of product (years)**	**20 years**	**# Students Impacted per Year**	**20**
Location equipment or software will be used/stored	**HH 1414**	**Will Tech Fee funds be needed for annual renewals or maintenance?**	**No**		

Provide a brief description of the technology requested*: The requested technology is a contemporary instrument that determines the number, size, and viability of cells that have been removed from the body (e.g., cells in blood).

Briefly describe how the technology will be used (function)*: Undergraduate and graduate students in the Dept. of Kinesiology receive hands-on training on how to decipher complex responses and adaptations that occur in blood and skeletal muscle after exercise. An important component of their training is learning how to count and process cells isolated from blood and skeletal muscle. The extent of their training in this area however, is currently limited by the lack of equipment that can determine the number of live cells, the number of dead cells, and the size of cells in a sample. The requested technology will be used by students to make such measurements in lab activities associated with the above courses and in their senior project, thesis, or dissertation research.

Provide a rationale that Tech Fee funds are appropriate for this request*: The requested items will enhance student learning by providing them with the opportunity to learn how to perform the aforementioned measurements using a contemporary analyzer. In addition, the use of this analyzer will substantially reduce the time students spend collecting data, as well as increase the validity and reliability of their data.

***Keep in mind that the committee members come from a variety of educational backgrounds and may not be familiar with department specific language. Please use concise, common terminology so that committee members reviewing this form will be able to fully understand the request.**

- If you are submitting a request for computers, printers, scanners or software, you must consult with College Computing and the technology staff, to acquire a quote and to make sure that this equipment/software is supported by UT and compatible with existing technology.

QUOTATION

LI-COR Biosciences

LI-COR, Inc.
4647 Superior Street
Lincoln, NE 68504 USA
Phone: 402-467-0700
U.S.: 800-645-4267
Fax: 402-467-0819
www.licor.com
bio.orders@licor.com

FEDERAL ID NO: 47-0537101
DUNS NO: 06-223-7961

Francis Pizza
University of Toledo
2801 West Bancroft Street
MS 119 / HH 2503
Toledo, OH 43606
UNITED STATES

QUOTE NO: L27309-1
QUOTE DATE: 01/February/2013

Your Reference No.	Quote Expires	Payment Terms
Request for Quotation	26/April/2013	0.00/0/30

Ship Via	Shipping and Handling Terms	LI-COR Consultant
FedEx LTL Freight	Prepaid & Add	Jason Lockefeer x

Item No.	Qty	Shipment ARO	Part No. and Product Description	Unit Price	Net Price	Price Extension
1	1	30 days	900-0201 NucleoCounter® NC-200™ Automated Cell Counter The NucleoCounter NC-200 It is an integrated fluorescence microscope with dual fluorescent channels designed to detect signals from cells stained with acridine orange and/or DAPI. It enables the user to perform automated cell counting and analyses of a broad range of eukaryotic cells.	$17,200.00	$17,200.00	$17,200.00
2	1	7 days	941-0012-50 Via1-Cassette™ Cassette, Qty 100 x 50 Cassette with Acridine Orange and DAPI for one-step viability assays and cell counts. For use with NucleoCounter® NC-200™ (P/N 900-0201) and NucleoCounter NC-3000 Cell Counters.	$10,250.00	$10,250.00	$10,250.00

Comments

Subtotal $27,450.00
Total Price $27,450.00
Shipping and Handling (est.) $75.00
Grand Total **$27,525.00**

Terms and Conditions

RESALE OR EXPORT OF PRODUCTS QUOTED PROHIBITED

LI-COR Standard Terms and Conditions of Sale and Warranty can be viewed at: *http://www.licor.com/inc/terms.htm*

REFER TO QUOTE NUMBER WHEN PLACING ORDER. FAX ORDER TO 1-402-467-0819 ATTENTION SALES DEPARTMENT.

GSA Contract GS-24F-1183C

Contract Period October 1, 2009 – September 30, 2014

SPECIFICATIONS: AS PER LI-COR LITERATURE

ALL PRICES: Are in US DOLLARS and are exclusive of any import duties, customs clearance fees and/or international local taxes.

U.S. SALES TAX: LI-COR is required to charge tax in the following states: CA, FL, GA, HI**, ID, IL, IA, IN, MD, MA, MI, MN, MO, NE, NJ, NY, NC, OH, PA, SC, TN, TX, UT, WA, WI. If you are tax exempt, a copy of your tax exemption certificate will be required prior to placing the order, otherwise tax will be charged to your final invoice. **Special note – for the State of Hawaii a 4% excise tax will be added to the total price.

MINIMUM COMPUTER SPECIFICATIONS: 20" LCD Monitor, 3.1GHz i5 2400 Processor, 250GB Hard Drive, 4GB RAM, 16X DVD R/W Drive, Dual Network Interface Card, Windows OS. The warranty/repair will be provided by the manufacturer, which includes three years limited parts and labor with three years on-site service, Next Business Day.

WARRANTY: The Imager and/or Analyzer System includes one year parts and labor, with one year of on-site service. LI-COR calculates the expiration of the warranty period from the instrument's date of installation.

TECHNICAL SUPPORT AND SERVICE: The Imager and/or Analyzer System includes instruction manuals, application support, technical bulletins and free software upgrades for one year.

INSTALLATION AND TRAINING: On-site installation of the Imager and/or Analyzer System (if included with the product configuration), includes; network connection and configuration, and one basic training course for three people maximum.

As per INCOTERMS 2001

MADE IN USA

Technology that counts

chemometec

NEW!

The NucleoCounter® NC-200™

– Easiest Viability and Cell Count Ever!

The NucleoCounter® NC-200™

Viability and cell count has never been easier or more precise. The NucleoCounter® NC-200™ from ChemoMetec is a giant step forward for automated cell counting. No need to add buffers or dyes. No need to calibrate. Just prepare your cell suspension, load it into the disposable Via1-Cassette™ place the cassette in the slot and press run!

The NucleoCounter® NC-200™ is a compact instrument which fits perfectly in any mammalian cell laboratory performing e.g. research, quality control or monitoring of production.

Principle: The NucleoCounter® NC-200™ is an integrated fluorescence microscope with dual fluorescence channels designed to detect signals from cells stained with acridine orange and/or DAPI.

Key Benefits
of the NucleoCounter® NC-200™

- ✓ **One step viability and cell count in less than 50 seconds**
  - Total count
  - Viability
  - Cell diameter
  - % of cells in clumps
- ✓ **No pre-treatment**
- ✓ **Fast and easy operation**
- ✓ **Maintenance and service free**
- ✓ **Safe sample handling and disposal**
- ✓ **Excellent reproducibility**
- ✓ **User adaptable counting protocols**
- ✓ **Flexible software package**
- ✓ **21 CFR part11 ready**

NEW!

The NucleoCounter® NC-200™

One cassette · One setting · Truly objective

Vaccine & Micro Carriers | Stem Cells | Cancer Cells | Toxicology | *and more*

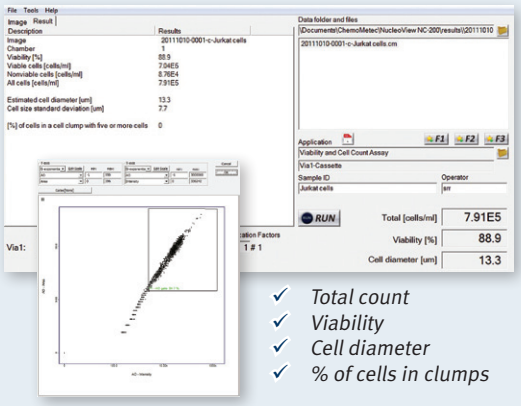
One cassette · One setting · Truly objective

Easy operation
No pre-treatment necessary!

Fill the Via1-Cassette™

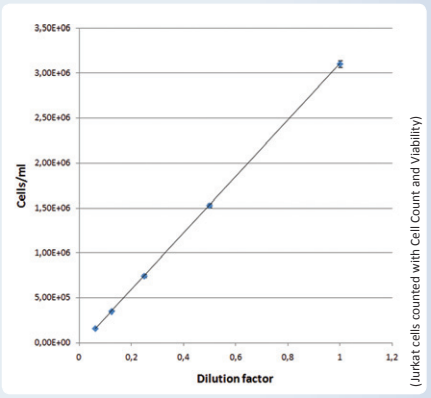
Load and press "Run"

Fast results
Ready in 50 seconds!

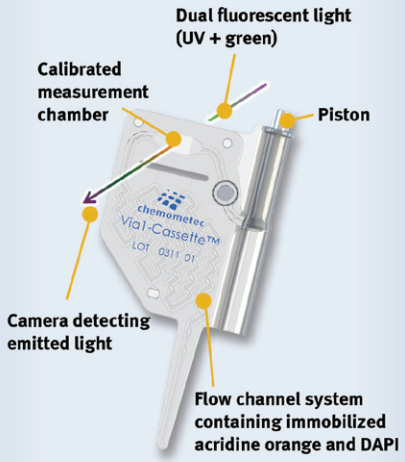


- ✓ *Total count*
- ✓ *Viability*
- ✓ *Cell diameter*
- ✓ *% of cells in clumps*

Superior statistics
Excellent linearization of dilution ranges

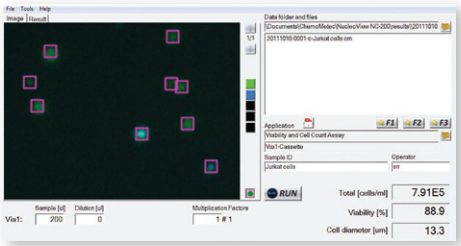


The Via1-Cassette™

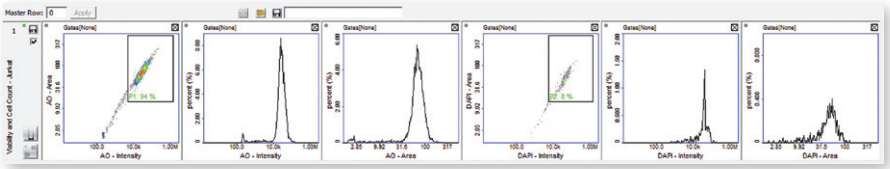


NucleoView® NC-200™ Software

The NucleoCounter® NC-200™ comes with a superior software package. The user input of optional dilution of a sample is directly accounted for in the software. The protocols can be adapted by the user to accommodate cell lines that are out of the ordinary.



- ✓ Export of data to e.g. Excel
- ✓ Browse data from prior samples
- ✓ Easy selection of protocols
- ✓ PlotManager for user adaptation
- ✓ Visual inspection of counted cells
- ✓ Fast selection of favorite protocols



NucleoCounter® NC-200™ Specifications

Loading volume:	60 µl is loaded into the Via1-Cassette™
Measurement volume:	1.4 µl in the measurement chamber of the Via1-Cassette™
Analysis time:	50 seconds (one step), 120 seconds (two step)
Measurement range:	5 x 10^4 to 5 x 10^6 cells/ml. (optimal range)
Size:	38 x 26 x 22 cm (W x H x D), weight 3 kg
Software:	NucleoView™ NC-200 computer software for documentation and presentation

NEXT GENERATION CELL ANALYSIS

Viability and Cell Count
Cell Vitality
Mitochondrial Potential
Annexin V
Caspase 3/7, 8 & 9
DNA Fragmentation
Two-step Cell Cycle
Cell Cycle of Fixed Cells
GFP Transfection Efficiency
+ User Adaptable Protocols

www.chemometec.com/nc-3000

For more information, please visit
www.chemometec.com/NC-200

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