

Specifications

Principle of Operation

BioProfile CDV utilizes the industry standard Trypan Blue Exclusion Assay. The cell sample is allowed to settle on a proprietary flowcell that is incrementally moved past the microscope objective (10x). The high powered Vision System, using proprietary detection algorithms, processes the result.

Measured Parameters

Total Cell Density
Viable Cell Density
% Viability
Live Cell Diameter
Live Cell Standard Deviation/Histogram

Calculations

Cell Growth Rate
Cell Growth Doubling Time

Detectable Cell Density Ranges (utilizing selectable on-board dilution)

Dilution Ratio: 1:1
Density Range 100,000–20,000,000 cells/mL

Dilution Ratio: 1:2
Up to 40,000,000 cells/mL

Dilution Ratio: 1:4
Up to 80,000,000 cells/mL

Detectable Cell Diameter Range

4 – 70 microns

Viability

0 – 100%

Sample Volume

less than 300 uL of aspirated volume

Sampling Options

Automated batch using 12-position sampling tray

Analysis Time

Less than 3.0 minutes

Dimensions

16”W x 18.5”H x 20”D
(40.6cm W x 47.0cm H x 50.8cm D)

Weight

Less than 50 pounds (22.7 Kg)

Reagent Pack Description

2 Pack System with integral waste bag, on-board system diluent, and deproteinization solution.
Up to 300 Samples/pack

Operating Temperature Range

15-40°C (59-104°F)

User Interaction

17” Touch Screen
Keyboard
Mouse
Printer Support (USB or Network printer)
Barcode Reader
Simple, intuitive User Interface

Data Transfer/Communication

USB Thumb Drive
Ethernet (RJ45 Connector)

Safety Certifications

IEC 61010-1:2001

Quality Systems Certification

ISO 9001:2008

FDA Registered, OPC Compliant, PAT
Compatible, 21 CFR Part 11 Compliant

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NOVA BIOMEDICAL HEADQUARTERS: 200 Prospect Street, Waltham, MA 02454-9141 U.S.A. TEL: (781) 894-0800 (800) 458-5813 FAX: (781) 894-5915 Int'l FAX: (781) 899-0417
NOVA BIOMEDICAL AUSTRIA/EASTERN EUROPE/MIDDLE EAST: Laxenburger Strasse 33/6, A-1100 Vienna, Austria TEL: (43) 1-603 09 700 FAX: (43) 1-603 09 702 e-mail: office@novabio.at
NOVA BIOMEDICAL CANADA, LTD: 17 – 2900 Argentia Road, Mississauga, Ontario L5N 7X9 Canada TEL: (905) 567-7700 (800) 263-5999 FAX: (905) 567-5496 e-mail: info@novabio.ca
NOVA BIOMEDICAL FRANCE: Parc Technopolis - Bât. Sigma 3 Avenue du Canada 91940 Les Ulis Courtaboeuf, France TEL: (33) 1-64 86 11 74 FAX: (33) 1-64 46 24 03 e-mail: novabio@infonie.fr
NOVA BIOMEDICAL GmbH: Messenhäuser Str.42, 63322 Rödermark, Germany TEL: (49) 6074-8448-0 FAX: (49) 6074-844833 e-mail: info@novabiomedical.de
NOVA BIOMEDICAL INDIA: 307, Apra Plaza II, Plot No.14, Sector - 10, Dwarka, New Delhi - 110 075 India TEL: +91-11-25085653 +91-11-25075653 FAX: +91-11-25085630 e-mail: novabio@nde.vsnl.net.in
NOVA BIOMEDICAL K.K.: B-3F Omori Bellport, 26-Minami Oj 6-chome, Shinagawa-ku, Tokyo 140-0013, Japan TEL: (03) 5471-5461 FAX: (03) 5471-5474 e-mail: info@novabiomedical.co.jp
NOVA BIOMEDICAL U.K.: C3-5 Evans Business Centre, Deeside Industrial Park, Deeside, Flintshire CH5 2JZ United Kingdom TEL: 44 1244 287087 FAX: 44 1244 287080 e-mail: office@novabiomedical.co.uk

IN THE U.S.A.: call toll-free 800-458-5813 **IN CANADA,** call toll-free 800-263-5999

**Internet address: www.novabiomedical.com
e-mail: info@novabiomedical.com**