

TRANSGENOMIC

WAVE[®] MD System

Automated and Robust DHPLC Technology for Nucleic Acid Analysis



The WAVE MD System model 4000 Plus is the ideal tool for Nucleic Acid Analysis featuring denaturing high performance liquid chromatography (DHPLC). DHPLC is the standard in high sensitivity mutation detection delivering over 99% sensitivity — detecting mutations missed by sequencing.

Built on Transgenomic's years of experience with DHPLC, the WAVE MD System takes advantage of Transgenomic's NucleicSep™ technology through the use of the DNASep® Cartridge. This powerful technology allows heteroduplexes to separate easily from wild type homoduplexes for superior analysis.

Benefits

- The WAVE MD System uses the DNASep Cartridge and Standard WAVE MD Buffers.
- The WAVE MD System has shortened sample analysis times, achieved by the WAVE MD Advantage module, supplied as standard.
- The WAVE MD System uses Navigator™ Software, sophisticated software for mutation data analysis.

Applications

- Mutation Detection
- Sizing (DS and SS DNA)
- Microbiology applications such as mixed species analysis

Standard Components

Navigator Software

Navigator Software offers:

- Internet connectivity for retrieval of genetic sequences (www.mutationdiscovery.com)
- Automated prediction of melt temperatures
- Complete system operating parameters
- Data analysis and automated mutation calling
- Network capabilities

Computer System

Intel® 865G chipset
 D530 Restore CD
 Intel Pentium® 4, 2.0GHz/ 533MHz FSB
 512MB DDR PC2700 (DDR333)
 Integrated Intel® Extreme Graphics 2 (64MB equivalent)
 Compaq 15" flat panel display
 40 GB ATA/ 100 7200RPM Hard Drive
 48X/24X/48X CDRW Drive
 Integrated Intel® audio w/premium internal speaker
 Solenoid/ Hood Sensor D530 SFF
 Microsoft® Windows® 2000 (Service Pack 3)
 HP PS/2 ball scroll mouse
 HP PS/2 keyboard Easy Access KBD
 Broadcom® NetXtreme™ gigabit Ethernet solution
 Microsoft® Office 2003 - Microsoft® Word, Microsoft® Excel,
 Microsoft® Outlook

WAVE Advantage Module

Provides faster analysis time and improved DNASep Cartridge efficiency, resulting in longer cartridge life.

Optional Equipment

WAVE Fragment Collector Model FCW 200

Up to 192 samples can be collected in two 96 well plates or in individual 200 µL PCR tubes.

Physical Dimensions

(Excluding the computer and printer)
 Dimensions: 54 cm W x 61 cm D x 48 cm H
 (21" W x 24" D x 19" H)
 Weight: 64 kg (140 lb)

Ordering Information

Product

WAVE MD System for North America
 WAVE MD System for United Kingdom
 WAVE MD System for Europe
 WAVE MD System for Australia
 WAVE MD System for Japan

Catalog No.

WMD-99-4000A
 WMD-99-4000B
 WMD-99-4000C
 WMD-99-4000D
 WMD-99-4000J

Corporate Headquarters

Transgenomic, Inc.
 12325 Emmet Street
 Omaha, NE 68164, USA
 Phone: (888) 233-WAVE • (402) 452-5400
 Fax: (402) 452-5401
 E-mail: info@transgenomic.com

Europe

Transgenomic Ltd.
 Parc Victoria, Immeuble 'Le Vancouver'
 15 Avenue Du Hoggar
 Paris, Courtaboeuf Cedex, France 91969
 Phone: +33 (0)1 64 86 56 56
 Fax: +33 (0)1 69 29 03 78



TRANSGENOMIC®
transforming the world

NucleicSep Cartridge

Patented DNASep Cartridge filled with non-porous matrix consisting of polystyrene-divinylbenzene (PS-DVB) copolymer microspheres.
 Injection capacity: 0.5 ng to 2 µg

Autosampler

Single plate 96 well sample tray
 Temperature control: user adjustable 1 °C to 20 °C
 Sample volume: 200 µL maximum
 Injection volume: 2 to 45 µL

High Precision Direct Coupled Oven

Temperature range: ambient to 80 °C
 Precision: ± 0.1 °C
 Reproducibility: ± 0.1 °C
 Linearity over full temperature range
 Heating and cooling rate: Better than 5 °C/min

UV Absorbance Detector

Lamp source: Mercury lamp
 Bandwidth: 0.1 nm
 Wavelength: 254 nm, single channel

Dual Pumping System

Delivers two separate buffers
 Variable flow rate typically at 0.9 mL per minute
 Flow rate accuracy: +/- 2% (H₂O at 20 °C)

Printers

Note: A printer is required for each WAVE System.
 The HP DeskJet® 3820, Professional Series or equivalent is the standard printer. You may upgrade for an additional cost to the HP DeskJet 990CSE, Professional Series or equivalent.

www.transgenomic.com

www.MutationDiscovery.com®