



**State of West Virginia  
Department of Administration  
Purchasing Division**

**NOTICE**

Due to the size of this bid, it was impractical to scan every page for online viewing. We have made an attempt to scan and publish all pertinent bid information. However, it is important to note that some pages were necessarily omitted.

If you would like to review the bid in its entirety, please contact the buyer. Thank you.

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Roberta A Wagner  
 STATE OF WEST VIRGINIA  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON STREET, EAST  
 CHARLESTON, WV 25311

# Waters

THE SCIENCE OF WHAT'S POSSIBLE™

DATE: 01/05/2009  
 WATERS QUOTE #: 20336822  
 EXPIRATION DATE: 03/22/2009  
 DELIVERY: 60 DAYS  
 Page 1 of 12

## Quotation

www.waters.com

FREIGHT TERMS:  
 FOB DESTINATION  
 ABSORBED BIDS  
 PAYMENT TERMS:  
 NET 30 DAYS

USER TEL: 304 558 0067  
 USER FAX: 304 558 4115  
 EMAIL: roberta.a.wagner@wv.gov  
 RFQ # CME90068 DUE 1/22/2009

**PLEASE REFERENCE THIS QUOTATION WHEN PURCHASE ORDER IS ISSUED**

PRODUCT #	QTY	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
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1.	176850019	1	WATERS TQ DETECTOR	315,728.00
			Discount	-72,617.44
			Net Price	243,110.56
				243,110.56

**Includes the following components**

176001263

1 Waters TQ Detector  
 The Waters TQ Detector is a compact, benchtop tandem quadrupole API mass spectrometer.  
 The system features new automated set-up technology and fast acquisition capability for simple, rapid LC/MS/MS.  
 The following items are included as part of the standard system:  
 Z SPRAY™ API Interface. Dual orthogonal interface for robust LC/MS  
 IntelliStart™ fluidics. Automated tuning, calibration and method development  
 Electrospray (ESI) inlet probe. for efficient ionisation of a wide range of compounds  
 ESCI™ ionisation capability. rapid switching source for both ESI and APCI in the same run.  
 1. ZSpray API INTERFACE  
 Atmospheric pressure ionisation ( API ) LC interface including:  
 One easily dismountable ion source enclosure.  
 Cone gas facility for chemical noise reduction.  
 Electronic mass flow meters for drying gas and cone gas.  
 Tool free cone removal  
 Source isolation valve  
 Micrometer probe positioning  
 The source and spraying elements are visible through a transparent enclosure and are easily accessible via a quick-release door. The source elements may be wiped clean in situ or removed for cleaning without the need for tools and without breaking vacuum. The nebulized spray is orientated orthogonally and positioned off axis for maximum source longevity and analyser protection against 'dirty' samples. The source also includes facilities for declustering ions formed at atmospheric pressure. Positive and negative capability is included. All source voltages and gases are under data system control.  
 IntelliStart fluidics: The system comprises an on-board infusion system capable of delivering solutions from 2 built-in vial locations to aid tuning, calibration and method development. The solutions are delivered via a switching valve for direct infusion to the probe or combined into an LC flow. The valve can be programmed from the software to function as a divert valve. The fluidics can be controlled manually via the system Console or automatically as part of the IntelliStart system check software.  
 2. TANDEM QUADRUPOLE ANALYSER  
 2x High performance quadrupole analysers with inter-element beam focusing and a mass range of 2-2000 amu.  
 Pre-filters maximise resolution and transmission especially at high mass and also to eliminate main filter cleaning.  
 All lens and analyser voltages are digitally controlled and recorded.

**RECEIVED**

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Analyser parameters may be programmed with respect to mass for optimal performance.

### 3. T-WAVE COLLISION CELL

High efficiency gas cell for collision induced dissociation. Programmable software control of collision energy and gas pressure, including experimental record. The Travelling Wave (T-Wave) device enables rapid cell clearance and refill for fast MRM transition switching while maintaining optimum signal to noise.

### 4. VACUUM SYSTEM

Clean, differentially pumped, automated vacuum system comprising: Air-cooled Pfeiffer splitflow turbomolecular drag pump evacuating both the source & analyser. Vacuum read backs and system vent/pump cycles are digitally monitored and controlled, to provide total software control and ensure fail-safe operation in the event of power failure. And One Leybold rotary pump for backing of the turbo pump, (to be ordered separately 186003887).

### 5. DETECTOR

Dynolite photomultiplier detector. A High Voltage conversion dynode and phosphor are positioned at 90° off-axis to the analyser for the elimination of neutral noise. The photomultiplier is enclosed in its own vacuum envelope for long life. The detector operates in both positive and negative ion modes, and can switch rapidly under software digital control.

205000414

1 KIT, MAINS CORDS, US

186003887

1 Assy Vacuum Roughing  
 Leybold rotary pump for backing of the turbo pump

176001255

1 MassLynx 4.1,M57p XP for Waters TQ  
 MassLynx 4.1 Application Software  
 Multi-tasking suite of analytical applications and instrument management software operating in Microsoft Windows environment. MassLynx includes:  
 Mass Spectrometer Control Software  
 a) Data acquisition formats.  
 Scan data can be acquired to file in the following formats:  
 Centroided data acquisition.  
 Profile data acquisition.  
 Multi Channel Analysis (MCA) data acquisition.  
 b) MS and MS-MS acquisition functions.  
 The following data acquisition functions are available:  
 MS scanning.  
 MS selected ion recording.  
 MS-MS precursor ion scanning (parents).  
 MS-MS product ion scanning (daughters).  
 MS-MS neutral loss/gain scanning.  
 MS-MS multiple reaction monitoring.  
 Data directed switching (automated MS to MS-MS scan function switching).  
 Polarity mode switching.  
 Ionisation mode switching (ESCI)  
 External contact start/stop/events.  
 Analogue channel acquisition via a SATIN module.  
 c) Tuning Utilities.  
 The system features easy-to-use automated and manual tuning and calibration software tools. Tuning parameters include:

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Ionisation mode and polarity.  
MS & MS/MS acquisition.  
All ion source parameters.  
All lens voltages.  
MS1 and MS2 resolution.  
MS1 and MS2 ion energy.  
Photo-multiplier gain.  
d) Inlet Control Software  
Integrated control of specific Waters LC, autosampler and detector systems  
Third party LC and autosampler systems from specified vendors  
e) Data processing and review:  
Spectrum Review and Processing  
Chromatogram Review and Processing  
3-D Contour plotting  
Spectral library search facilities (user defined or commercial libraries)  
Batch processing of qualitative and quantitative sample sets:  
OpenLynx Application Manager  
OpenLynx Processing provides summary reports for groups of samples.  
OpenLynx methods may be configured to include:  
1) Analytes found/not found.  
2) Purity,  
3) Probable elemental composition (with Exact Mass Measurement Instrumentation),  
4) Chromatograms,  
5) Spectra. OpenLynx reports are portable and may be viewed (read-only) with optional Browser utility without MassLynx software.  
QuanLynx Application Manager  
QuanLynx provides quantification of MassLynx data. QuanLynx quickly processes groups of samples, providing automated peak detection, calibration and quantification. The QuanLynx Report provides facile online data review and report printing. QuanLynx operates within the MassLynx security system (where enabled); it includes tools to enable compliance with the FDA's guidelines on electronic records and electronic signatures (21 CFR Part 11). QuanLynx reports are portable and may be reviewed with optional Browser utility without MassLynx software.  
The MassLynx Security Subsystem (where installed) provides a compliant-ready solution for US FDA GxP and 21 CFR 11 and other regulations.  
License to operate software on one workstation.  
MassLynx Security, when installed, provides a compliant-ready solution for US FDA GxP and 21 CFR 11 and other regulations.  
QuanLynx & TargetLynx are compliant-ready and include tools to enable compliance with the FDA's guidelines on electronic records and electronic signatures.  
Other MassLynx Application Managers are compatible with MassLynx security but are not compliant-ready.  
Lenovo ThinkCentre M57p E6750 with Windows XP Professional  
Processor: Intel Core 2 Duo E6750 Processor (2.66 GHz 1333 MHz FSB 4MB L2); Operating system: Windows XP Professional;  
Form factor: Tower; Motherboard: Intel Q35 Chipset; Total memory: 2 GB

Waters Technologies Corporation d/b/a/ Waters Corporation 34 Maple Street Milford, MA 01757 Fax # 1-508-482-8532 or 1-508-482-8834

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PRODUCT #	QTY	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
		PC2-5300 SDRAM (2 DIMMs); Maximum memory: 8GB; Video adapter: Intel GMA 3100 (integrated); Audio adapter: ADI 1882 HD Audio CODEC; First hard drive bay: 250GB HDD, 7200RPM Serial ATA; Second hard drive bay: None; Diskette drive: Floppy Disk Drive; First optical device bay: DVD MultiBurner Plus; Networking: Integrated Intel Gigabit Ethernet; Keyboard: Preferred Pro Full-size Keyboard (Stealth Black) - US Euro; Pointing device: Optical USB wheel mouse; System Warranty: Four Years Onsite International; Warranty with Non-HDD Return; Expansion: 2 * PCI, 1 * PCI Expressx1, 1* PCI Expressx16; Ports: 1 Parallel, 1 * Serial, External microphone, External Display, Headphone, Line in, Line out, 8 USB 2.0 (2 front, 6 back); Additional Software: IBM RecordNow; Additional Network card: PCI Express 1x NetXtreme Gigabit Ethernet; National Instruments GPIB controller card; Monitor: None; Printer: None		
66800273	1	20" Flat Panel Monitor		
		<b>MassLynx Software Options</b>		
176001086	1	TargetLynx The TargetLynx Application Manager is designed for target quantification. It includes all the functionality available in QuanLynx plus comprehensive quality control (QC) features. The identification of target analytes is assured based on user-defined ion ratios. Quality limits are user definable; data falling to meet the defined criteria are automatically flagged. In addition TargetLynx highlights significant results where either the 'surveillance' reporting level or action level is exceeded. QC parameters available include: Up to six ion ratios with automated batch to batch up-date. Retention time tolerance with automated batch to batch up-date. Signal to noise ratio. % recovery calculation. Calculation of variation in response factor. TargetLynx fulfills analyte confirmation requirements in food analysis when analyzing for regulated pesticide or antibiotic residues. Additionally, TargetLynx is well suited to dioxin assays.		
		<b>ACQUITY UPLC System</b>		
176015000	1	ACQUITY UPLC Core System. 1. Waters ACQUITY Ultra Performance LC Systems have been holistically designed to control and optimize all the parameters required to take full advantage of the benefits of UPLC in today's laboratory. The ACQUITY UPLC Core System forms the basis for all UPLC systems. The ACQUITY UPLC System is an integrated solvent and sample management UPLC instrument configured for binary solvent delivery and sample introduction. The system may be configured for a broad range of applications supported by UPLC optical and mass spectrometry detectors,		

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with a choice of instrument control and data management software.  
 The following items are included as part of the core system:  
 - ACQUITY UPLC Binary Solvent Manager  
 - ACQUITY UPLC Sample Manager w/High Temperature Column Heater Module  
 - ACQUITY UPLC Solvent Tray Module  
 - ACQUITY UPLC System Test Mix  
 - ACQUITY UPLC System Test Column 2.  
 2. Connections INSIGHT valued at \$995, is provided at no charge during the first year.  
 3. Two hours application consultation with Waters Chemistry Specialist valued at \$750 is provided at no charge during the first year.

**ACQUITY UPLC Columns**

176000864 1 ACQUITY UPLC BEH C18 1.7µm 2.1x100mm 3pk

**Installation and Training**

741000321 1 Waters TQ Detector MS System Installation  
 Includes:  
 -System Set up and Specification Testing  
 -Product Familiarization Training  
 -1 Year Manufacturers Warranty  
 - Insight Remote Intelligent Services

2.	750000362	1	2 DAY on-site Field Apps Ed (2 days)	7,050.00	
				Discount	-2,115.00
				Net Price	4,935.00
					4,935.00

3.	176850005	1	LCT Premier MS System	317,952.50	
				Discount	-73,129.08
				Net Price	244,823.42
					244,823.42

**Includes the following components**

**LCT PREMIER**

176001227 1 LCT Premier XE Orthogonal Acceleration Time of Flight Mass Spectrometer with Rotary pump Backing option.  
 LCT Premier XE is a compact, fully integrated, computer controlled, high performance, orthogonal acceleration time of flight mass spectrometer that can be configured for a wide range of LC-MS applications. The standard system comprises the following items :-  
 A Z SPRAY™ API interface.  
 LockSpray™ dual electrospray ion source for dedicated exact mass measurement  
 Electrospray (ESI) inlet probe  
 Integrated syringe pump

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ESCITM ionisation capability with LockSpray. This source allows you to monitor both ESI and APCI simultaneously using a single ionisation source. Applies LockSpray functionality to provide simplified exact mass measurement.

### 1. Z-Spray™ ATMOSPHERIC PRESSURE IONISATION SOURCE

Atmospheric pressure ionisation (API) HPLC interface comprised of the following:-

One easily dismantlable ion source enclosure.

Rf ion guides for ion transfer to high vacuum region.

Software controlled nebuliser and desolvation gas

Cone gas facility to aid efficient drying/de-clustering prior to ion injection

One Rheodyne 7010P pneumatically operated injector fitted with a 10L loop.

The source and spraying elements are visible through an easily removable transparent enclosure and the source

elements may be wiped clean in-situ or removed for cleaning without breaking vacuum. The nebulized spray is

orientated orthogonally and positioned off axis for maximum source

longevity and analyser protection against 'dirty'

samples. The source also includes facilities for declustering ions

formed at atmospheric pressure. Positive and

negative capability is included. All source voltages are under data

system control

### TRANSFER OPTICS

A second Rf only ion guide lens and a Rf only hexapole is provided in

addition to electrostatic steering and focussing

lenses. All lens and analyser voltages are digitally controlled. Lens

voltages used for data acquisition are

automatically recorded and appended to the relevant data file.

### 3. ORTHOGONAL ACCELERATION TIME OF FLIGHT ANALYSER

Precision engineered orthogonal acceleration time-of-flight mass

spectrometer for MS data acquisition.

Comprising:

One ion injection cell with two stage orthogonal acceleration system and high precision reflectron for high resolution

performance.

Dual chevron microchannel plate and anode detector assembly,

electrically isolated for optimum +ve and -ve ion

detection.

One time to digital converter (TDC) ion counting system operating at

4GHz.

One additional mirror to allow a second round trip of the TOF analyser

(.W. geometry)

### 4. DATA DISPLAY

Real time spectrum display on the workstation terminal during tuning.

Real time chromatogram and spectrum display on

the workstation terminal during acquisition.

### 5. VACUUM SYSTEM

Clean, differentially pumped vacuum system comprising:-

One Edwards High Vacuum EXT 70/70/200 3 stage air-cooled turbomolecular

drag pump

One Edwards High Vacuum E1M18 rotary pump

One Edwards High Vacuum E2M28 rotary pump

The system is provided with an analyser Pirani vacuum gauge. An

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electromagnetic vent valve is fitted for automatic vacuum shut down. Vacuum readbacks and system vent/pump cycles are digitally monitored and controlled, to provide total software control and ensure fail-safe operation in the event of power failure.  
 6. INSTRUMENT CONTROL AND DATA PROCESSING ARCHETECTURE  
 All functions relating to instrument control, diagnostic system surveillance and Data acquisition are performed by an embedded PC and a time to digital convertor (TDC), operating at up to 4 GHz sampling frequency.

7. MASSLYNX SOFTWARE  
 The MassLynx workstation and software for instrument control, data acquisition and processing must be ordered separately (See MassLynx Acquisition System Options section for part numbers and descriptions)  
 Post acquisition processing and general data manipulation can be carried out by an additional computer workstation and software installation (See the MassLynx Process-only Workstations section of the MassLynx Variant configurator 176706000)  
 The standard system does not include the following items, which must be specified separately:  
 Additional Inlet probes (e.g IonSABRE, APPI, MUX, MUX-Exact Mass and NanoLockSpray ).  
 PC based data system and monitor.  
 Additional data system terminals.  
 Printers.  
 HPLC systems or other inlet options.

700004027  
 176001114

- |   |  |
|---|--|
| 1 | Waters LCT Premier/XE Sample Kit   |
| 1 | MassLynx 4.1, M57p & XP LCT Premier<br>MassLynx 4.1 Application Software<br>Multitasking suite of analytical applications and instrument management software operating in Microsoft Windows environment, featuring graphical user interface with multiple windows<br>MassLynx includes:<br>Mass Spectrometer Control Software<br>Mass Spectrometer Control Software contains a comprehensive set of applications software for the LCT Premier.<br>a) scan functions<br>MS histogrammed spectra.<br>b) acquisition functions<br>Profile data acquisition<br>HPLC control (specific HPLC systems only)<br>HPLC Autosampler control (specific autosamplers only)<br>Analogue input: Interfacing of up to four ancillary LC detectors (UV, RI) to MassLynx data system.<br>External contact start/stop<br><br>c) MassLynx Applications Software<br>A multi-tasking suite of analytical applications and instrument management software. Includes:-<br>MassLynx operating system, featuring graphical user interface with multiple windows, pull down menus and toolbars. |



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Linkages to organise and co-ordinate the different modules of the package.  
3-D contour plotting.  
Spectral library search facilities (user defined or commercial libraries).  
d) Tuning Utilities  
Fully software supported instrument tuning via interactive graphics display window allowing control of:  
Ionisation mode and polarity  
MS acquisition  
Ion source parameters  
Lens voltages  
TOF ion Injection  
Inlet Control Software (LC and GC, from multiple vendors)  
Spectrum Review and Processing  
Chromatogram Review and Processing  
LC and/or GC Quantitation for chromatographic analysis  
3-D Contour plotting  
Spectral library search facilities (user defined or commercial libraries)  
OpenLynx Application Manager  
OpenLynx Processing provides summary reports for groups of samples.  
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QuanLynx Application Manager  
QuanLynx provides quantification of MassLynx data. QuanLynx quickly processes groups of samples, providing automated peak detection, calibration and quantification. The QuanLynx Report provides facile online data review and report printing.  
License to operate software on one workstation.  
MassLynx Security is NOT an option for the LCT Premier XE.  
Lenovo ThinkCentre M57p E6750 with Windows XP Professional  
Processor: Intel Core 2 Duo E6750 Processor (2.66 GHz 1333 MHz FSB 4MB L2); Operating system: Windows XP Professional;  
Form factor: Tower; Motherboard: Intel Q35 Chipset; Total memory: 2 GB PC2-5300 SDRAM (2 DIMMs); Maximum memory: 8GB;  
Video adapter: Intel GMA 3100 (integrated); Audio adapter: ADI 1882 HD Audio CODEC; First hard drive bay: 250GB HDD, 7200RPM Serial ATA; Second hard drive bay: None; Diskette drive: Floppy Disk Drive;  
First optical device bay: DVD MultiBurner Plus; Networking: Integrated Intel Gigabit Ethernet;  
Keyboard: Preferred Pro Full-size Keyboard (Stealth Black) - US Euro;  
Pointing device: Optical USB wheel mouse;  
System Warranty: Four Years Onsite International; Warranty with Non-HDD Return;  
Expansion: 2 \* PCI, 1 \* PCI Expressx1, 1 \* PCI Expressx16; Ports: 1

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668000273	1	Parallel, 1 * Serial, External microphone, External Display, Headphone, Line in, Line out, 8 USB 2.0 (2 front, 6 back); Additional Software: IBM RecordNow; Additional Network card: PCI Express 1x NetXtreme Gigabit Ethernet; National Instruments GPIB controller card; Monitor: None; Printer: None  20" Flat Panel Monitor		
		<b>ACQUITY UPLC System</b>		
176015000	1	ACQUITY UPLC Core System. 1. Waters ACQUITY Ultra Performance LC Systems have been holistically designed to control and optimize all the parameters required to take full advantage of the benefits of UPLC in today's laboratory. The ACQUITY UPLC Core System forms the basis for all UPLC systems. The ACQUITY UPLC System is an integrated solvent and sample management UPLC instrument configured for binary solvent delivery and sample introduction. The system may be configured for a broad range of applications supported by UPLC optical and mass spectrometry detectors, with a choice of instrument control and data management software. The following items are included as part of the core system: - ACQUITY UPLC Binary Solvent Manager - ACQUITY UPLC Sample Manager w/High Temperature Column Heater Module - ACQUITY UPLC Solvent Tray Module - ACQUITY UPLC System Test Mix - ACQUITY UPLC System Test Column 2. 2. Connections INSIGHT valued at \$995, is provided at no charge during the first year. 3. Two hours application consultation with Waters Chemistry Specialist valued at \$750 is provided at no charge during the first year.		
		<b>ACQUITY UPLC Columns</b>		
176000864	1	ACQUITY UPLC BEH C18 1.7µm 2.1x100mm 3pk		
		<b>MassLynx Software Options</b>		
176001063	1	ChromaLynx. Application Manager The ChromaLynx. Application Manager is designed to automatically process complex chromatographic datasets composed of many components which may be incompletely separated from one another. ChromaLynx operates with GC/MS or GC/MS/MS, and LC/MS or LC/MS/MS data. ChromaLynx provides exceptional efficiency for the location, peak detection and generation of 'clean' mass spectra of closely eluting components in complex mixtures with the ability to retain exact mass measurements where available through a proprietary chromatographic deconvolution algorithm. ChromaLynx provides: Automatic deconvolution of complex chromatograms A list of unique (or common) components Deconvoluted mass spectra Automatic library searching against commercially available libraries Comparison of deconvoluted chromatograms		

Roberta A Wagner  
 STATE OF WEST VIRGINIA  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON STREET, EAST  
 CHARLESTON, WV 25311

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DATE: 01/05/2009  
 WATERS QUOTE #: 20336822  
 EXPIRATION DATE: 03/22/2009  
 DELIVERY: 60 DAYS  
 Page 10 of 12

**Quotation**

www.waters.com

FREIGHT TERMS:  
 FOB DESTINATION  
 ABSORBED BIDS  
 PAYMENT TERMS:  
 NET 30 DAYS

USER TEL: 304 558 0067  
 USER FAX: 304 558 4115  
 EMAIL: roberta.a.wagner@wv.gov  
 RFQ # CME90068 DUE 1/22/2009

**PLEASE REFERENCE THIS QUOTATION WHEN PURCHASE ORDER IS ISSUED**

PRODUCT #	QTY	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
		Semi-quantitative reporting of deconvoluted component concentrations ChromaLynx comparison browser for data review.		
		<b>Installation and Training</b>		
741000304	1	LCT Premier MS System Installation Includes: -System Set up and Specification Testing -Product Familiarization Training -1 Year Manufacturers Warranty -1 Year Software Support and Restore Service -Insight I-Assist Remote Connection		
4. 750000362	1	2 DAY on-site Field Apps Ed (2 days)	7,050.00	
			Discount -2,115.00	
			Net Price 4,935.00	4,935.00
5. 667003661	1	Kit, ACQUITY TQD Toxicology: STA	0.00	0.00
6. 667003663	1	Kit,ACQUITY TQD Toxicology: Targeted	0.00	0.00
			<b>QUOTE TOTAL</b>	<b>USD 497,803.98</b>

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PRODUCT #	QTY	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
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To place an order for the products and services on this quotation, please fax your hard copy purchase order to:  
508-482-8532 or 508-482-8834.

You may also send your hard copy purchase order to the following email address in the form of a PDF document:  
waters\_quotes@waters.com

To place a telephone order, contact Waters Sales Support at 1-800-252-4752 x8023

Questions regarding this quotation should be directed to your local  
Waters Technical Sales Representative: Joe Raterman 1-800-252-4752 Ext. 4650  
Joe.Raterman@Waters.com



Sales Support Representative  
Waters Corporation  
DRU

## THIS TRANSACTION IS EXPRESSLY CONDITIONED UPON AND SUBJECT TO ALL OF THE FOLLOWING TERMS AND CONDITIONS:

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14. Additional Terms and Conditions - This quotation is also subject to any Waters Special Terms and Conditions applicable to the products or services offered by this quotation, which appear on the front of this quotation. Any variance from the terms and conditions of this quotation in any order or other written notification from Buyer, will be of no effect. Should Buyer order products or services through a Waters office located outside of the United States, the terms and conditions of the quotation issued by the office outside of the United States shall govern such order.
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