

Customer:

Dr. Pearly Ng
Biomedical Sciences Institutes
Experimental Therapeutics Centre (ETC)
31 Biopolis Way #03-01 Nanos
Singapore 138669

Email : pearly_ng@etc.a-star.edu.sg
Tel : 6564788767
Fax : 6564788768

Waters AutoPurification System

Quotation No. 21966294 - Expiration Date : 15.04.2019

General information

789565/11860177

Provider:

Waters Pacific Pte Ltd
Joanna Ang
1 Science Park Road
#02-1/06 The Capricorn
Singapore Science Park II
Singapore 117528

Email : Joanna_Ang@Waters.com

Quotation

Waters AutoPurification System

Price Details in SGD

Please reference this quotation when purchase order is issued

Itn	Part No.	Description	Unit Price	Qty	Gross Price	Disc %	Net Price
Waters AutoPurification System							
With the following configuration:							
1	176003182	AutoPurification Core System w/SFO	179,055.00	1	179,055.00	-60.00%	71,622.00
2	716000765	KIT, SAMPLE, AUTO-PURIFICATION INJECT-CO	414.00	1	414.00	-60.00%	165.60
3	716000261	STANDARD FRACTION LYNX	815.00	1	815.00	-60.00%	326.00
4	176002489	2489 UV/VISIBLE DETECTOR	24,868.00	1	24,868.00	-60.00%	9,947.20
5	289000614	2487 / 2489 AUTOPURIFICATION CELL	6,253.00	1	6,253.00	-60.00%	2,501.20
6	176003207	ACQUITY QDa Detector (Standard)	98,813.00	1	98,813.00	-60.00%	39,525.20
7	176003265	Startup Kit, LC Prep and QDa System	1,900.00	1	1,900.00	-60.00%	760.00
8	205000437	Splitter, Flow, 1000:1, 8-30mL	6,856.00	1	6,856.00	-60.00%	2,742.40
9	176001064	FractionLynx v4.1	14,246.00	1	14,246.00	-60.00%	5,698.40
10	176001303	ML4.1 & Standard PC for AutoPurification	21,320.00	1	21,320.00	-60.00%	8,528.00
11	668000273	MONITOR, Lenovo ThinkVision Flat Panel	1,031.00	1	1,031.00	-60.00%	412.40
12	WAT207000	ASSY, HPLC PUMP, M515	15,357.00	1	15,357.00	-60.00%	6,142.80
13	205000434	Kit, AutoPurification Sol. Res. Tray	1,129.00	1	1,129.00	-60.00%	451.60
14	186002979	XBridge Prep C18 5µm OBD 19x150mm Col	5,875.00	1	5,875.00	-60.00%	2,350.00
15	205000109	KIT, 27X7 OPEN ACCESS 2ML VIAL INJ RACK	1,129.00	1	1,129.00	-60.00%	451.60
16	205000115	KIT, 2767 18MM FRACTION COLLECTOR RACK	495.00	1	495.00	-60.00%	198.00
17	205000117	KIT 2767 16MM FRACTION COLLECTOR RACK	495.00	1	495.00	-60.00%	198.00
18	700004293	KIT, 2ML PREP, XLP	828.00	1	828.00	-60.00%	331.20
19	741000322	FRACTIONLYNX MS INSTALLATION CERT	20,528.00	1	20,528.00	-60.00%	8,211.20
20	750000533	On-Site Autopur Trg - ROW (3 days)	18,007.00	1	18,007.00	-60.00%	7,202.80
21	750000834	Using ACQUITY QDa wth MassLynx	3,806.00	1	3,806.00	-60.00%	1,522.40
22	700000606	TEE, PEEK W/3 COMP SCREWS	239.00	1	239.00	-60.00%	95.60
23	186003113	XBridge C18 5µm 4.6x50mm Column	1,146.00	1	1,146.00	-60.00%	458.40
Total					424,605.00		169,842.00

Quotation

Waters AutoPurification System

Price Details in SGD

Please reference this quotation when purchase order is issued

Total excluding GST		169,842.00
GST	7.00 %	11,888.94
Total		181,730.94

Joanna Ang
Account Manager

Julius Hiu
Sales Manager, Singapore

Terms of Payment

NET 30 DAYS

Shipping Information

DDP

Special Information

60% discount entitled at point of sale.

Quotation

Waters AutoPurification System

Optional Products

Please reference this quotation when purchase order is issued

Itm	Part No.	Description	Unit Price	Qty	Gross Price	Disc %	Net Price
24	740003049	TAW System Fluidics Organizer (1PM)	4,000.00	1	4,000.00	-60.00%	1,600.00
25	740002978	TAW 2489 UV DET (1PM)	2,400.00	1	2,400.00	-60.00%	960.00
26	740000643	TAW 2767 SAMPLE MANAGER (1PM)	12,800.00	1	12,800.00	-60.00%	5,120.00
27	740002727	TAW 2545 PUMP (1PM)	11,600.00	1	11,600.00	-60.00%	4,640.00
28	740005034	TAW ACQUITY QDa Detector(1PM)	10,300.00	1	10,300.00	-60.00%	4,120.00
29	740003046	TAP System Fluidics Organizer (1PM)	3,900.00	2	7,800.00	-40.00%	4,680.00
30	740000718	TAP 2767 SAMPLE MANAGER (1PM)	10,600.00	2	21,200.00	-40.00%	12,720.00
31	740002973	TAP 2489 UV DET (1PM)	2,000.00	2	4,000.00	-40.00%	2,400.00
32	740005032	TAP ACQUITY QDa Detector (1PM)	9,900.00	2	19,800.00	-40.00%	11,880.00
33	740000700	TAP 2525 PUMP (1PM)	10,200.00	2	20,400.00	-40.00%	12,240.00

Quotation

Waters AutoPurification System

Detail Product Descriptions

Itm	Part No.	Description
-----	----------	-------------

1	176003182	AutoPurification Core System w/SFO
----------	------------------	---

The core components of the Autopurification system allow for full automation and system capabilities. The 2545BGM is designed for analytical to prep scalability with low delay volume and high pressure mixing. 2767 offers large scale fraction collection capacity and separate analytical and prep flow paths for scalability with out compromise. The SFO provides the automation with a selector valve to direct the flow through the analytical or preparative switching valves. Three analytical and two preparative columns can be plumbed for method developement. Additionally the SFO controls upto three 515 pumps for M/S make up flow, At-Column Dilution, and or solvent modifiers. An seven port ethernet hub is integrated in the SFO. Optional system leak detection capability is contolled by the SFO. The start-up kit provides the tubings and fittings needed to plumb the system.

The following items are included as part of the core standard system:

- 186003765 System Fluidics Organizer
- 186025450 2545 Binary Gradient Module
- 200000234 KIT, STARTUP, AUTOPURIFICATION SYSTEM
- 725000299 2767 SAMPLE MANAGER

2	716000765	KIT, SAMPLE, AUTO-PURIFICATION INJECT-CO AutoPurification System Standard
----------	------------------	---

3	716000261	STANDARD FRACTION LYNX
----------	------------------	-------------------------------

4	176002489	2489 UV/VISIBLE DETECTOR
----------	------------------	---------------------------------

2489 UV/Visible Detector

Designed to provide the highest performance in UV/Visible detection, Waters® 2489 UV/Visible Detector is the most sensitive and versatile dual-wavelength absorbance detector available for HPLC. The 2489 UV/Vis Detector offers the superior sensitivity required for detection of minor impurities with the linear dynamic range to simultaneously quantitate major and minor components for both routine and complex HPLC applications.

5	289000614	2487 / 2489 AUTOPURIFICATION CELL Autopurification Flowcell
----------	------------------	---

6	176003207	ACQUITY QDa Detector (Standard)
----------	------------------	--

The ACQUITY QDa Detector is a mass detector designed as a synergistic element of a chromatographic separations system. Confirm compound identity with qualitative mass spectral data, complementing quantitative optical data. Quantify compounds with no UV response or at levels not accessible by optical detection.

Compact for minimized lab space requirements. Integrated flow path for reduced dispersion. Adjustment-free atmospheric pressure ionisation (API) electrospray (ES) interface for reliability. Compatible with HPLC, UPLC, SFC and UPC2 flow rates of 50 ul/min # 2 ml/min. Disposable sample orifice for minimized maintenance and maximized repeatability. Positive and negative ion switching capability for enhanced compound coverage. Tool-free maintenance.

Quotation

Waters AutoPurification System

Detail Product Descriptions

Item	Part No.	Description
------	----------	-------------

Dual off-axis ion guides for elimination of neutral noise with increased sensitivity and robustness. Automated mass calibration and resolution verification for consistent data quality. Automatically-optimized single ion recording (SIR) and full scan (FS) analysis in m/z range 30-1250 for enhanced data acquisition. Orthogonal, in-vacuum Dynolite photomultiplier detector for stability, elimination of neutral noise and longevity.

Clean, differentially pumped, automated vacuum system comprising air-cooled split flow turbomolecular drag pump (TMP) and integrated & quiet dry (oil-free) exhaust-free vacuum backing pump. Fail-safe operation for unattended analysis.

Autosensing 100-240 V ac ((50/60 Hz).

Standard option features integrated vacuum backing pump for enhanced compactness and reduced noise & maintenance.

Integrated control & data processing with Empower 3, Empower 2 & MassLynx 4.1.

7	176003265	Startup Kit, LC Prep and QDa System
---	-----------	-------------------------------------

8	205000437	Splitter, Flow, 1000:1, 8-30mL
---	-----------	--------------------------------

Flow Splitter, 8.0-30mL, 1000:1

9	176001064	FractionLynx v4.1
---	-----------	-------------------

FractionLynx v4.1

Includes FractionLynx Software, OpenLynx Open Access Software, and 10 FractionLynx Browser licenses for data review on workstations which do not have MassLynx installed

The FractionLynx Application Manager is a high performance software application that operates with MassLynx Software.

FractionLynx automates the collection of detected fractions, tracks samples and fractions, and then presents the data in an easy-to-view format via the FractionLynx Browser. FractionLynx can trigger fractions using a variety of detector signals including UV, MS, ELSD and RI.

AutoPurify, a feature of the FractionLynx Application Manager, enables users to allow the software to:

Automatically screen samples to determine the preparative strategy in an analytical-scale separation

Choose an appropriate method for each sample in a batch and purify it

Screen fractions to determine the next process step

The FractionLynx Application Manager provides a variety of collection options including:

One-to-one mapping to retain plate format

Secondary collection of peaks that are not of primary concern but that are not classified as waste

Waste collection to ensure no sample material is lost

Coupling FractionLynx with the OpenLynx OALogin interface permits operation in a walk-up and walk-away environment.

Through a single-page login or step-through wizard users can submit samples for purification. Results can be e-mailed to users, viewed with the FractionLynx Browser, or printed in a customized format.

The FractionLynx package includes OpenLynx Open Access and a 10-license pack for the FractionLynx Browser.

10	176001303	ML4.1 & Standard PC for AutoPurification
----	-----------	--

ML4.1 & Standard PC for AutoPurification

MassLynx 4.1 Application Software

Multi-tasking suite of analytical applications and instrument management software operating in Microsoft Windows

Quotation

Waters AutoPurification System

Detail Product Descriptions

Itm	Part No.	Description
-----	----------	-------------

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 acquisition functions.

The following data acquisition functions are available:

MS scanning.

MS selected ion recording.

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:

Ionisation mode and polarity.

MS acquisition.

All ion source parameters.

All lens voltages.

MS1 resolution.

MS1 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

Quotation

Waters AutoPurification System

Detail Product Descriptions

Itm	Part No.	Description
-----	----------	-------------

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.

Lenovo ThinkStation C30 with Windows 7 Professional 64

Processor: Intel® Xeon® E5-2620 Processor (2.0GHz 6c); Operating system: Windows 7 Professional 64 - bit (US English); Form factor: Tower 4x6 Mechanical; Motherboard: C30 - TPM Enabled; Total memory: 8 GB ECC PC3 UDIMM 1333MHZ (4 x 2GB); Video adapter: NVIDIA Quadro 400 (512MB DVI+DP), DVI -To - VGA Video Converter; Audio adapter: Integrated Audio; RAID: Internal RAID - Not Enabled; First hard drive bay: 2TB SATA 3.5" Hard Drive - 7200 rpm; First optical device bay: Lenovo 16x DVD +/- RW Dual Layer (Windows 7); Networking: Dual Integrated Ethernet 10/100/1000; Keyboard: Lenovo USB Preferred Pro Full Size Keyboard - US Euro; Pointing device: Lenovo Optical Wheel Mouse - USB Primax 400 DPI; Line Cord: US; Language Pack: English; System Warranty: Non-Return HDD - 3 Year Warranty US/EMEA/AP, Three year on-site warranty (parts and labour); Monitor: None; Printer: None

11	668000273	MONITOR, Lenovo ThinkVision Flat Panel
-----------	------------------	---

Monitor, Lenovo Thinkvision Flat Panel
22 inch monitor

12	WAT207000	ASSY, HPLC PUMP, M515
-----------	------------------	------------------------------

Waters 515 HPLC Pump

13	205000434	Kit, AutoPurification Sol. Res. Tray
-----------	------------------	---

Kit, Autopur. Solv Reservoir Tray

14	186002979	XBridge Prep C18 5µm OBD 19x150mm Col
-----------	------------------	--

XBridge BEH C18 OBD Prep Column, 130Å, 5 µm, 19 mm X 150 mm, 1/pkg

15	205000109	KIT, 27X7 OPEN ACCESS 2ML VIAL INJ RACK
-----------	------------------	--

Quotation

Waters AutoPurification System

Detail Product Descriptions

Itm	Part No.	Description
-----	----------	-------------

Open Access 2mL Vial Holder Kit

16	205000115	KIT, 2767 18MM FRACTION COLLECTOR RACK
-----------	------------------	---

Fraction Collector 18mm Rack Kit

17	205000117	KIT 2767 16MM FRACTION COLLECTOR RACK
-----------	------------------	--

Fraction Collector 16mm Rack Kit

18	700004293	KIT, 2ML PREP, XLP
-----------	------------------	---------------------------

19	741000322	FRACTIONLYNX MS INSTALLATION CERT
-----------	------------------	--

FractionLynx MS System Installation

Includes:

- System Set up and Specification Testing
- Product Familiarization Training
- 1 Year Manufacturers Warranty
- Insight I-Assist Remote Connection

20	750000533	On-Site Autopur Trg - ROW (3 days)
-----------	------------------	---

21	750000834	Using ACQUITY QDa wth MassLynx
-----------	------------------	---------------------------------------

This course titled "Using ACQUITY QDa with MassLynx" is a 2 day classroom-based Customer Education course which includes a 1/2 day online eLearning prerequisite track, p/n 750002025 titled "ACQUITY QDa Introduction - eLearning PrerequisiteTrack". The eLearning track must be viewed prior to attending the classroom training course.

22	700000606	TEE, PEEK W/3 COMP SCREWS
-----------	------------------	----------------------------------

Nano-flow Tee Splitter

23	186003113	XBridge C18 5µm 4.6x50mm Column
-----------	------------------	--

XBridge BEH C18 Column, 130Å, 5 µm, 4.6 mm X 50 mm, 1/pkg

24	740003049	TAW System Fluidics Organizer (1PM)
-----------	------------------	--

Total Assurance Warranty System Fluidics Organizer 1 Performance Maintenance Visit

Quotation

Waters AutoPurification System

Detail Product Descriptions

Itm	Part No.	Description
25	740002978	TAW 2489 UV DET (1PM) Total Assurance Warranty 2489 UV Detector 1 Performance Maintenance Visit. Provides two years of full coverage
26	740000643	TAW 2767 SAMPLE MANAGER (1PM) Total Assurance Warranty 2767 Sample Manager 1 Performance Maintenance Visit
27	740002727	TAW 2545 PUMP (1PM) Total Assurance Warranty 2545 Pump 1 Performance Maintenance Visit
28	740005034	TAW ACQUITY QDa Detector(1PM)
29	740003046	TAP System Fluidics Organizer (1PM)
30	740000718	TAP 2767 SAMPLE MANAGER (1PM)
31	740002973	TAP 2489 UV DET (1PM)
32	740005032	TAP ACQUITY QDa Detector (1PM)
33	740000700	TAP 2525 PUMP (1PM)

Quotation

Waters AutoPurification System

General Sales Terms and Conditions

1. General
Waters Pacific Pte Ltd ("Seller") hereby agrees to sell the products to buy upon the terms and conditions set forth herewith. Seller shall not be bound by any standard or printed terms furnished by the Buyer in any of its documents, unless the Buyer specifically states in writing separately from such terms that it intends such terms to apply and the Seller acknowledges such notification in writing.
2. Price
 - a. Unless otherwise agreed at the time of sale, the price stated is ex-works and exclusive of Goods & Services Tax which shall be chargeable in addition upon supply of goods.
 - b. All quotations and estimates used by Seller are, unless otherwise stated, based on current costs and are subject to amendment on or after acceptance of order by Seller to meet any rise in such costs.
 - c. Any variation to prices quoted as a result of government taxes and levies will be for the Buyer's accounts.
 - d. Written quotations automatically expire 30 calendar days from the date issued and are subject to termination by notice within that period. All orders based on written quotations are subject to Seller's acceptance at its office in 1 Science Park Road #02-01 The Capricorn, Singapore Science Park II, Singapore 117528.
3. Delivery
 - a. Stock items are processed for prompt delivery. Whilst there is no minimum order value there is a minimum charge in respect of packing, handling and delivery. Details of these charges are available on request.
 - b. Notwithstanding that the Seller and the Buyer may agree to deliver the goods at some specified place the delivery of goods to a carrier for the purpose of transmission to the Buyer is deemed to be a delivery of the goods to the Buyer and risk in the goods shall pass accordingly at the moment of delivery to the carrier.
 - c. Inspection and testing and/or installation of the goods is not provided by Seller unless otherwise agreed at the time of sale.
 - d. Seller retains ownership of the goods the property in which shall not pass to Buyer and Buyer shall keep any goods delivered to it as bailee for and on behalf of Seller until Seller has received payment of the price of all the goods (whether or not the goods are delivered in instalments and some have been paid for by Buyer pursuant to these terms) and until such time the Buyer shall store the goods separately or in some other way ensure that the goods are readily identifiable as the property of Seller and at Seller's request either shall deliver up to the goods to Seller or shall permit Seller to enter Buyer's business or other premises to repossess the goods and subsequently re-sell them.
 - e. The provisions of this clause 3(d) shall survive the determination of the contract for whatever reason.
4. Payment
 - a. Payment terms are strictly Net Cash 30 days after delivery of the goods, provided Buyer's credit has been approved or specified in the quote. If the Buyer's credit had not been established with Seller, terms are payment in advance.
 - b. All payments made by Buyer shall be made without any deduction of deferment in respect of any disputes or claims whatsoever and/or in respect of any taxes imposed by or under the authority of any government or public authority.
 - c. Where Seller does not receive payment of any of its invoices within 30 days of the date thereof interest shall thereafter accrue on the sum due and owing to Seller at the rate of 2% per month calculated on a daily basis without prejudice to Seller's right to receive payment within such 30 day period.
 - d. Time for payment shall be of the essence.
5. Confidentially/Intellectual Property
 - a. Any order received by Seller will be treated as confidential and will not be disclosed or publicised to any third party for any reason without the prior written consent of Buyer. Neither shall Seller use Buyer's name or other identify for advertising or publicity purposes without Buyer's prior written consent.
 - b. The sale of the goods by Seller to Buyer does not confer any right or license upon buyer to use, exploit or otherwise utilise any intellectual property rights subsisting in or relating to the goods of which Seller is a proprietor or to which Seller is otherwise entitled.
6. Specifications
The characteristics and specifications of Seller's products are documented in Seller's technical literature and are approximately only Seller reserves the right to change product specifications without prior notice.
7. Cancellation
An order accepted by Seller may be cancelled only before delivery of the goods and only with the consent of Seller upon terms that Buyer will indemnify Seller against any loss incurred.
8. Return
In no case are products to be returned without first obtaining the consent of the Seller. Only unused products as currently manufactured which have been invoiced by the Seller within 30 days will be considered for return. Products accepted for credit are subject to a 20 per cent service charge plus all transportation charges. Products built to order or not of the original manufacturer of the Seller are not subject to return for credit under any circumstances. Products must be securely packed to reach the Seller without damaged. No returns shall be authorised after 90 days following shipment to buyer.
9. Warranty
The Products and/or services shall be covered by the applicable Waters' standard warranty, a copy of which is supplied with the Products and/or services or upon request. NO OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED, IS MADE WITH RESPECT TO THE PRODUCTS AND/OR SERVICES. WATERS EXPRESSLY EXCLUDES THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. Any model or sample furnished to the Buyer is merely illustrative of the general types and quality of goods and does not represent that the Products will conform to Waters applicable standard warranty. WATERS SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR ANY OTHER INDIRECT DAMAGES RESULTING FROM ECONOMIC LOSS OR PROPERTY DAMAGE SUSTAINED BY BUYER FROM THE USE OF ITS PRODUCTS OR SERVICES.
10. Termination
 - a. It prior to the delivery of the goods (or any instalment thereof) Seller has reason to believe that Buyer is unable to pay its debts or if Buyer enters into liquidation (other than for the purpose of effecting a reconstruction or amalgamation) whether compulsory or voluntary or compounds with or conveys a meeting of its creditors or has a receiver appointed over all or any part of its assets or takes or suffers any similar action in consequence of a debt or ceases for any reason to carry on business, Seller may terminate the contract by notice in writing to Buyer.
 - b. Termination of the contract pursuant to Clause 10(a) shall not effect the accrued rights of the parties arising in any way out of such contract as of the date of termination.
11. Variation
Neither Seller or Buyer shall be bound by any variation, waiver of or an addition to, those terms and conditions except as agreed by both parties in writing.
12. Time
Seller will endeavour to dispatch the products on the promised delivery date but does not guarantee to do so.
13. Force Majeure
Waters shall have no liability for failure to perform or delay in performance, in the delivery of any and all equipment manufactured or sold by Waters including instruments, supplies, components, systems, chemistry, accessories, replacement spare parts, or any and all services provided by Waters, caused by circumstances beyond its reasonable control including, but not limited to, acts of God, acts of nature, floods, fire, explosions, war or military mobilisation, United States governmental action or inaction, request of governmental authority, delays of any kind in transportation or inability to obtain material or equipment, acts of other governments, strikes or labour disturbances.
14. Law
The contract shall be deemed to have been made in Singapore and the Parties to the contract hereby submit to the jurisdiction of Singapore courts. Singapore law shall be the proper law of the contract.