

Customer:

Ms. Zi Ying Zheng
Bioprocessing Technology Institute Ministry:STC: Dept: ARES
SubUnit:BTI
A*STAR Research Entities
20 Biopolis Way #08-01
Centros Building
Singapore 138668

Email : zheng_zi_ying@bti.a-star.edu.sg
Tel : 6564788888
Fax : 6564789561

UPLC Process Analysis System

Quotation No. 22285101 - Expiration Date : 16.05.2020

General information

111184/12023082

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

UPLC Process Analysis 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
UPLC Process Analysis Systems							
With the following configuration:							
1	176003332	ACQUITY UPLC Process Sample Manager	136,200.00	1	136,200.00		136,200.00
2	176003356	Kit, PATROL UPLC Process Development	4,000.00	1	4,000.00		4,000.00
3	176003335	ACQUITY UPLC Plus BioQSM for PATROL	54,900.00	1	54,900.00		54,900.00
4	176015056	ACQUITY UPLC H-Class BioCM-A	30,100.00	1	30,100.00		30,100.00
5	176015026	ACQUITY UPLC PDA Detector	51,800.00	1	51,800.00		51,800.00
6	205000613	ACQUITY UPLC PDA 5mm Titanium FC	7,700.00	1	7,700.00		7,700.00
7	176000846	Cart for PATROL UPLC Process Development	16,300.00	1	16,300.00		16,300.00
8	700005515	PATROL UPLC ABSORBANCE START-UP SOLUTION	1,793.00	1	1,793.00		1,793.00
9	176001967	PATROL OPC Communications	19,400.00	1	19,400.00		19,400.00
10	176003328	PATROL UPLC Empower 3 Personal Config.	32,900.00	1	32,900.00		32,900.00
11	668000398	Monitor, Planar P1745R TS LCD	1,500.00	1	1,500.00		1,500.00
12	WAT062479	BOTTLE CAPS, 1 LTR, 4 PKG	170.00	1	170.00		170.00
13	205000662	KIT, ACQUITY UPLC, QSM DEGASSER	1,500.00	1	1,500.00		1,500.00
14	741000428	PATROL UPLC SYSTEM INSTALL CERTIFICATE	7,800.00	1	7,800.00		7,800.00
15	750000583	PATROL UPLC Adv. Onsite Training 5 Days	54,500.00	1	54,500.00		54,500.00
16	176004352	BR SCX mAb 2.1x100wVGF mAb std pHAB LDPE	3,220.00	1	3,220.00		3,220.00
Total					423,783.00		423,783.00

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UPLC Process Analysis System

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System Discount	50.00 %	-211,891.50
Total excluding GST		211,891.50
GST	7.00 %	14,832.41
Total		226,723.91

Joanna Ang
Account Manager

William Chong
Sales Manager

Terms of Payment

30 Days - document date

Shipping Information

DDP

Quotation

UPLC Process Analysis System

Detail Product Descriptions

Itm	Part No.	Description
1	176003332	ACQUITY UPLC Process Sample Manager The Process Sample Manager (PSM) is a required module in the PATROL Family (Production (Cabinet), Pilot (Cart), and Laboratory traditional lab bench. The PATROL Process Analysis Systems are targeted to address the needs for in-process analysis of pharmaceutical, bio-pharmaceutical, and chemical markets for either Manufacturing or Laboratory needs. In addition the Process Sample Manager being the core of these PATROL Systems and its key attributes can be utilized as an upgrade to an existing ACQUITY UPLC system. The PSM is a free-standing, self-contained instrument module. The PSM will accept process samples in a vial format from a process operator or lab chemist. The PSM will also aspirate process samples directly from a process slip-stream or process vessel. The PSM will have the ability to verify the sample ID via a barcode reader, perform in-situ dilutions and inject the mixture onto the column for chromatographic analysis and results reporting. ACQUITY UPLC PROCESS SAMPLE MANAGER STARTUP KIT, PATROL UPLC LAB ANALYZER KIT, LEAK SENSOR ASSEMBLY PATROL UPLC April 2012 Driver Pack 15 x 75 Glass Vial-Screw Cap PTFE Septa 15 x 75 Glass,Screw Cap,preslit Septa PATROL UPLC Absorbance Startup Solution
2	176003356	Kit, PATROL UPLC Process Development
3	176003335	ACQUITY UPLC Plus BioQSM for PATROL Constructed of bio-inert materials (titanium and MP35N alloys) the Quaternary Solvent Manager (bioQSM) is purposely designed to accommodate the aqueous, high ionic strength solvents used in biopharmaceutical applications. The bioQSM is a high pressure pump that can simultaneously pump four degassed solvents (A, B, C, and D). A gradient proportioning valve (GPV) is used to dynamically blend solvents in any specified combination producing predictable gradient segments regardless of solvent compressibility and system backpressure. Solvent selection and blending occur on the low pressure side of the solvent delivery system and solvents continue to blend under high pressure in each piston chamber. Integrated degasser chambers (1 per solvent line) automatically remove dissolved gasses from up to four (4) elution solvents. A fifth degasser chamber is accommodated for the purge solvent utilized by the ACQUITY UPLC H-Class Bio Sample Manager. Automated, continuous

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UPLC Process Analysis System

Detail Product Descriptions

Itm	Part No.	Description
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compressibility compensation enables high pressure (up to 15,000 psi / 1,000 bar) solvent delivery. The bioQSM is equipped with electronically controlled Intelligent Intake Valve (i2Valve) delivering faster system priming and reduced startup times. The i2Valve minimizes solvent flow disturbances in the inlet lines by closely synchronizing the valve performance with pump operation. Leak sensors manage and identify solvent leaks during unattended operation. Programmable flow rates are 0.01 µL/min to 2 mL/min.

ACQUITY UPLC H-Class BioQSM
KIT, ACQUITY UPLC, QSM DEGASSER
Kit, Tube, PSM Intraconnet. MP35N

4 176015056 ACQUITY UPLC H-Class BioCM-A

ACQUITY UPLC Column Manager (CM-A)

The Column Manager (CM-A) insulates the column from ambient environmental variations. The CM-A supports up to 2 columns having dimensions up to 4.6 mm I.D. and 150 mm length (including guard column) or, 4 columns up to 50mm in length (requires additional APH kit). Temperature control is maintained for the range of 4°C to 90°C in two independent heat/cool zones. The CM-A comes standard with biocompatible active pre-heating (APH) enabling active solvent conditioning, prior to the column, improving chromatographic separations. Two 9-port switching valves are located on the front of the unit for ease of plumbing.

ACQUITY UPLC Columns, equipped standard with eCord Information Management Technology, interface with a communications reader in the column heater module to enable bidirectional communication of column manufacturing information and time-based usage of the column. All information is stored in the eCord device, and is accessible through the ACQUITY UPLC System Instrument Console.

5 176015026 ACQUITY UPLC PDA Detector

The ACQUITY UPLC Photodiode Array (PDA) Detector is specifically designed to compliment the ACQUITY UPLC H-Class System. With noise specifications as low as 10⁻⁴ AU, the ACQUITY UPLC PDA offers sensitivity that is unmatched by any photodiode array detector on the market.

Further, enhanced software control provides flexibility for simultaneous 2D and 3D operation in either Empower or MassLynx software.

Detector wavelength range is 190-500 nm, with 1.2 nm spectral resolution. Detector response is linear (d5% at 2.0 AU) across the 2.0 AU dynamic range. Detector supports full three-dimensional spectral analysis or multi-wavelength operation (up to eight (8) wavelengths) under Empower Software control.

Lamp optimization software guarantees low noise performance in the visible wavelength range and compensates for lamp degradation over time to ensure consistent response. The combination of lamp optimization software and an automatic second order filter enables operation in the

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UPLC Process Analysis System

Detail Product Descriptions

Itm	Part No.	Description
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linear wavelength range without requiring a lamp change. The lamp is warranted for 2000 hours.

Results management features supported in Empower software include Spectrum Index Review, Spectral Contrast Peak Purity, Multi-Component Peak Purity, and Spectral Library Matching.

The 10mm analytical light-guided flow cell delivers sensitivity and resolution to ACQUITY UPLC applications. Low dispersion performance is achieved with a 500 nL internal volume and 62.5 ¼m PEEKinterconnect inlet/outlet tubing.

6	205000613	ACQUITY UPLC PDA 5mm Titanium FC Flowcell, ACQUITY PDA, 5 mm, Titanium
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7	176000846	Cart for PATROL UPLC Process Development
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8	700005515	PATROL UPLC ABSORBANCE START-UP SOLUTION Patrol UPLC Absorbance Start-Up Solution
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9	176001967	PATROL OPC Communications
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PATROL OPC Communication Option

OPC Communications (Object Linking and Embedding (OLE) for Process Control) is a standards specification developed in 1996 by an industrial automation industry task force which became the OPC Foundation. The standard specifies the communication of real-time plant data between control devices from different manufacturers.

The OPC Specification was based on the OLE, COM, and DCOM technologies developed by Microsoft for the Microsoft Windows operating system family. The specification defined a standard set of objects, interfaces and methods for use in process control and manufacturing automation applications to facilitate interoperability. The most common OPC specification is OPC Data Access, which is used to read and write real-time data.

The OPC Standard defines consistent method of communicating, controlling, and accessing field data from plant floor instrumentation and devices. This communication protocol method remains the same regardless of the type and source of data. Historically any time control or access to data was required from an instrument or device, a custom interface or driver had to be written. OPC defines a common interface that is written once and then reused by any business across platforms and networks.

The OPC communication option on the PATROL UPLC Process Analyzer uses standard OPC Foundation programming protocols.

10	176003328	PATROL UPLC Empower 3 Personal Config.
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11	668000398	Monitor, Planar P1745R TS LCD
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UPLC Process Analysis System

Detail Product Descriptions

Itm	Part No.	Description
		Planr PT1701MX 17" Touch Screen LCD Monitor
12	WAT062479	BOTTLE CAPS, 1 LTR, 4 PKG Bottle Cap 1.00 in Neck, 4/pk
13	205000662	KIT, ACQUITY UPLC, QSM DEGASSER
14	741000428	PATROL UPLC SYSTEM INSTALL CERTIFICATE
15	750000583	PATROL UPLC Adv. Onsite Training 5 Days
16	176004352	BR SCX mAb 2.1x100wVGF mAb std pHAB LDPE SCX Start Up Kit: BioResolve SCX mAb Column (2.1 mm X 100 mm) with VanGuard FIT plus mAb Standard plus pH Concentrates

Quotation

UPLC Process Analysis 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. Confidentiality/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 personate 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.