

**Customer:**

Mr. Jun Liang Yew  
Baxalta Manufacturing SARL  
Singapore Branch  
2A Woodlands Industrial Park D  
Street 2  
Singapore 737779

Email : junliang.yaw@takeda.comv  
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**Arc HPLC System**

**Quotation No. 22500678 - Expiration Date : 06.02.2021**

**General information**

249682/12113036

**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**  
**Arc HPLC System**

**Price Details in SGD**

**Please reference this quotation when purchase order is issued**

| Itm                                      | Part No.    | Description                                 | Unit Price | Qty | Gross Price       | Disc %  | Net Price         |
|------------------------------------------|-------------|---------------------------------------------|------------|-----|-------------------|---------|-------------------|
| Arc HPLC System                          |             |                                             |            |     |                   |         |                   |
| <i>With the following configuration:</i> |             |                                             |            |     |                   |         |                   |
| 1                                        | 176017041   | Arc HPLC Core System                        | 74,700.00  | 1   | 74,700.00         |         | 74,700.00         |
| 2                                        | 186179100   | Alliance Column Heater Cooler (Blue)        | 7,500.00   | 1   | 7,500.00          |         | 7,500.00          |
| 3                                        | 176299801   | 2998 Photodiode Array Detector              | 46,400.00  | 1   | 46,400.00         |         | 46,400.00         |
| 4                                        | 200000476   | Startup Kit, Arc HPLC System w/CHC          | 720.00     | 1   | 720.00            |         | 720.00            |
| 5                                        | 200000477   | SUK, Arc HPLC System with UV Detection      | 220.00     | 1   | 220.00            |         | 220.00            |
| 6                                        | 186241401   | 2414 Refractometer Detector (blue)          | 25,900.00  | 1   | 25,900.00         |         | 25,900.00         |
| 7                                        | 200000477   | SUK, Arc HPLC System with UV Detection      | 220.00     | 1   | 220.00            |         | 220.00            |
| 8                                        | 176003144   | Empower 3 System License 1 Pack             | 4,300.00   | 1   | 4,300.00          |         | 4,300.00          |
| 9                                        | 741000104   | UPLC/HPLC SYSTEM & SOFTWARE<br>INSTALLATION | 5,900.00   | 1   | 5,900.00          |         | 5,900.00          |
| 10                                       | 741000520   | Waters LC Sys Disposal Service Not Req'd    | 0.03       | 1   | 0.03              |         | 0.03              |
| 11                                       | 750000905   | ACQUITY Arc Sys For Lab Practitioner        | 2,700.00   | 1   | 2,700.00          |         | 2,700.00          |
| 12                                       | 750000906   | Maintenance of ACQUITY Arc System           | 1,400.00   | 1   | 1,400.00          |         | 1,400.00          |
| 13                                       | 186247500   | 2475 Fluorescence Detector (blue)           | 36,000.00  | 1   | 36,000.00         |         | 36,000.00         |
| 14                                       | 176004762A4 | SQT Arc UV&RI Emp3 Qual Service on<br>Emp3  | 6,400.00   | 1   | 6,400.00          |         | 6,400.00          |
| 15                                       | 176004248A4 | SQT Arc 2475 Emp 3 Qualification Service    | 5,300.00   | 1   | 5,300.00          |         | 5,300.00          |
| <b>Total</b>                             |             |                                             |            |     | <b>217,660.03</b> |         | <b>217,660.03</b> |
| System Discount                          |             |                                             |            |     |                   | 50.00 % | -108,830.02       |
| <b>Total excluding GST</b>               |             |                                             |            |     |                   |         | <b>108,830.01</b> |
| GST                                      |             |                                             |            |     |                   | 7.00 %  | 7,618.10          |
| <b>Total</b>                             |             |                                             |            |     |                   |         | <b>116,448.11</b> |

**Joanna Ang**  
Account Manager

**William Chong**  
Sales Manager

**Quotation**

**Arc HPLC System**

**Price Details in SGD**

**Please reference this quotation when purchase order is issued**

**Terms of Payment**

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60 Days - Document date

**Shipping Information**

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DDP

**Special Information**

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Column heater or Column heater/cooler temperature accuracy test at 25°C, 30°C and 40°C  
Sample heater/ cooler temperature accuracy test at 4°C

## Quotation

### Arc HPLC System

## Detail Product Descriptions

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

|          |                  |                             |
|----------|------------------|-----------------------------|
| <b>1</b> | <b>176017041</b> | <b>Arc HPLC Core System</b> |
|----------|------------------|-----------------------------|

The Arc HPLC System configuration includes quaternary solvent delivery (QSM-R) and sample introduction via a direct inject sample manager (SMFTN-R) with temperature control. The system may be configured for a broad range of applications supported by choice of either one, of the two available HPLC optical detectors.

The following items are included as part of this configuration:

- 186017016 Arc HPLC Quaternary Solvent Manager (QSM-R)
- 186017017 Arc HPLC Sample Manager FTN (SM FTN-R) with Temp Control
- 200000475 Arc HPLC System Start Up Kit
- 205000505 Leak Sensor Assembly (QTY = 3)
- 186003031 XBridge C18 Column, 3.5µm 4.6 x 50 mm
- 186000307c 2 mL Glass Vial with pre-slit Septa(Pack of 100)
- 186008093 Arc HPLC Start-up solution
- 715005480 Info Set, Arc HPLC System
- 667006111 Waters Driver Pack 2019 Release 2 (Analytical)

|          |                  |                                             |
|----------|------------------|---------------------------------------------|
| <b>2</b> | <b>186179100</b> | <b>Alliance Column Heater Cooler (Blue)</b> |
|----------|------------------|---------------------------------------------|

|          |                  |                                       |
|----------|------------------|---------------------------------------|
| <b>3</b> | <b>176299801</b> | <b>2998 Photodiode Array Detector</b> |
|----------|------------------|---------------------------------------|

2998 Photodiode Array Detector with Analytical Flowcell  
Patented TaperSlit™ flow cell ensures high sensitivity while maintaining optimal spectral performance  
Low noise performance of <10 µAU - Wide, linear dynamic range with constant optical bandpass  
Simultaneous quantification of high- and low-level components within a single chromatographic separation  
Flexible sampling rates for normal and fast LC separations from 1 to 80 Hz  
Independent optimization of sampling rate and time constant gives you the ability to tune your detector to your separation goals  
Definitive compound identification & co-elution detection  
Spectral exposure optimization to maximize the signal-to-noise across the entire wavelength range with a single Deuterium lamp  
Lamp optimization for the best s/n performance over the lifetime of a Deuterium lamp  
Console software for simple control, monitoring, and diagnostics  
Thermal wander management for maximum baseline stability

|          |                  |                                           |
|----------|------------------|-------------------------------------------|
| <b>4</b> | <b>200000476</b> | <b>Startup Kit, Arc HPLC System w/CHC</b> |
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## Quotation

### Arc HPLC System

## Detail Product Descriptions

| Itm | Part No.  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5   | 200000477 | <b>SUK, Arc HPLC System with UV Detection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 6   | 186241401 | <b>2414 Refractometer Detector (blue)</b><br>2414 Refractometer Detector (blue)<br>The Waters® 2414 Refractive Index (RI) Detector defines the standard of excellence for differential refractive index detectors. Designed to provide the highest sensitivity, stability and reproducibility, the 2414 RI Detector is the ideal solution for the analysis and quantification of components with limited or no UV absorption, such as alcohols, sugars, saccharides, fatty acids, and polymers. Features include: <ul style="list-style-type: none"> <li>- Detection of components without UV chromophores separated by isocratic analysis</li> <li>- Highly repeatable detection technique with a wide linear dynamic range for methods requiring quantification</li> <li>- Thermally isolated optics bench for temperature stability and performance reproducibility</li> <li>- Counter-current heat exchanger to quickly equilibrate temperature differences of incoming solvent</li> <li>- Save solvent and maintain stability with convenient recycle valve</li> <li>- Auto-zero, auto-purge, and LED-displayed diagnostic programming enable unattended operation and to simplify methods development</li> <li>- Control of external column heater</li> </ul> |
| 8   | 176003144 | <b>Empower 3 System License 1 Pack</b><br>Empower 3 System License 1 Pack<br>Includes Personal Software 1 System License                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 9   | 741000104 | <b>UPLC/HPLC SYSTEM &amp; SOFTWARE INSTALLATION</b><br>ACQUITY UPLC System Installation<br>Includes: <ul style="list-style-type: none"> <li>-System Set up and Performance Testing</li> <li>-Product Familiarization Training</li> <li>-1 Year Manufacturers Warranty</li> <li>- Insight Remote Intelligent Services</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 10  | 741000520 | <b>Waters LC Sys Disposal Service Not Req'd</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 11  | 750000905 | <b>ACQUITY Arc Sys For Lab Practitioner</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 12  | 750000906 | <b>Maintenance of ACQUITY Arc System</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Quotation

### Arc HPLC System

## Detail Product Descriptions

| Itm | Part No.    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13  | 186247500   | <b>2475 Fluorescence Detector (blue)</b><br>2475 Fluorescence Detector (blue)<br>The Waters® 2475 Fluorescence Detector offers unsurpassed sensitivity for quantifying low concentrations of target compounds, whether naturally fluorescent or derivatized with a fluorescent tag. The 2475 detector sets the standard for fluorescence method development with 3D and "on-the-fly" spectral scanning for determining the optimal emission and excitation wavelengths, and has the ability to monitor up to four independent wavelength pairs. Features include: <ul style="list-style-type: none"><li>- Innovative axially illuminated flow cell designed for less dispersion, less stray light, less volume, and more pathlength for maximum sensitivity</li><li>- Three-dimensional spectral scanning for faster method development and optimization, and enhanced peak identification</li><li>- Single or multi-channel operation monitors fluorescence at one or more discrete wavelength pairs</li><li>- Low noise performance - Less stray light due to orthogonal optics and the use of mirrors, not lenses, minimize scatter</li><li>- Multiple detection modes - 2D, 3D, and on-the-fly spectral scanning – can greatly reduce the time needed to develop fluorescence detection methods by quickly determining wavelength maxima.</li><li>- Integral erbium calibration reference – Ensures wavelength accuracy</li><li>- Normalized emission units for better bench-to-bench reproducibility</li></ul> |
| 14  | 176004762A4 | <b>SQT Arc UV&amp;RI Emp3 Qual Service on Emp3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 15  | 176004248A4 | <b>SQT Arc 2475 Emp 3 Qualification Service</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Quotation

### Arc HPLC 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 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.