

**Customer:**

Mr. Lin Hock Kee  
Lonza Biologics Tuas Pte Ltd  
35 Tuas South Ave 6  
Singapore 637377

Email : linhock.kee@lonza.com  
Tel : 6596705811

**ACQ. UPLC H-Class PLUS Bio System**

**Quotation No. 22071357 - Expiration Date : 24.08.2019**

**General information**

244526/11693078

**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

### ACQ. UPLC H-Class PLUS Bio System

## Price Details in USD

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

| Itm                               | Part No.    | Description                             | Unit Price | Qty | Gross Price       | Disc %  | Net Price         |
|-----------------------------------|-------------|-----------------------------------------|------------|-----|-------------------|---------|-------------------|
| ACQ. UPLC H-Class PLUS Bio System |             |                                         |            |     |                   |         |                   |
| With the following configuration: |             |                                         |            |     |                   |         |                   |
| 1                                 | 176015106   | ACQUITY H-Class PLUS Bio System (CM-A)  | 88,200.00  | 1   | 88,200.00         | -13.00% | 76,734.00         |
| 2                                 | 176015028   | ACQUITY UPLC TUV Detector               | 23,800.00  | 1   | 23,800.00         | -13.00% | 20,706.00         |
| 3                                 | 176015029   | ACQUITY UPLC Fluorescence Detector      | 27,500.00  | 1   | 27,500.00         | -13.00% | 23,925.00         |
| 4                                 | 700003694   | ANTHRACENE TEST SOLUTION, 5.0 pg/uL     | 90.00      | 1   | 90.00             | -13.00% | 78.30             |
| 5                                 | 205001870   | Kit, Alternative Waste Man Sys, 1 Stack | 500.00     | 1   | 500.00            | -13.00% | 435.00            |
| 6                                 | 176003144   | Empower 3 System License 1 Pack         | 3,000.00   | 1   | 3,000.00          | -13.00% | 2,610.00          |
| 7                                 | 741000103   | UPLC / HPLC SYSTEM INSTALLATION         | 2,800.00   | 1   | 2,800.00          | -13.00% | 2,436.00          |
| 8                                 | 176002258A4 | sQT UPLC UV3-5mm Emp 3 Qual Service     | 3,700.00   | 1   | 3,700.00          | -13.00% | 3,219.00          |
| 9                                 | 205015033   | ACQUITY TUV, FLOWCELL, 10mm 500nL       | 5,200.00   | 1   | 5,200.00          | -13.00% | 4,524.00          |
| 10                                | 205000611   | ACQUITY UPLC TUV 5mm Titanium FC        | 5,200.00   | 1   | 5,200.00          | -13.00% | 4,524.00          |
| 11                                | 176002247A4 | sQT UPLC FLR+UV10mm Emp3 Qualif Service | 4,700.00   | 1   | 4,700.00          | -13.00% | 4,089.00          |
| 12                                | 205000776   | ACQUITY UPLC APH SS 23.5LG              | 1,000.00   | 1   | 1,000.00          | -13.00% | 870.00            |
| <b>Total</b>                      |             |                                         |            |     | <b>165,690.00</b> |         | <b>144,150.30</b> |

|                            |  |  |  |  |  |        |                   |
|----------------------------|--|--|--|--|--|--------|-------------------|
| <b>Total excluding GST</b> |  |  |  |  |  |        | <b>144,150.30</b> |
| GST                        |  |  |  |  |  | 7.00 % | 10,090.52         |
| <b>Total</b>               |  |  |  |  |  |        | <b>154,240.82</b> |

**Joanna Ang**  
Account Manager

**Julius Hiu**  
Sales Manager, Singapore

**Quotation**

**ACQ. UPLC H-Class PLUS Bio System**

**Price Details in USD**

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

**Terms of Payment**

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30 Days - document date

**Shipping Information**

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DDP

**Special Information**

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- Complimentary HClass Practitioner Training for 2 pax ( 2000.00 USD)
- Complimentary 1 Ad-hoc Preventive Maintenance for the 2nd year, inclusive of labor to perform PM and the following kits
- H-CLASS CM-A / CM-AUX & BIO PM KIT (22.00 USD)
- ACQUITY PDA/TUV 2489/2998 PERF MAINT KIT (970.00USD)
- ACQUITY FLR DETECTOR PERFORM MAINT KIT (1400.00 USD)
- ELSD PERFORMANCE MAINTENANCE KIT (840.00 USD)
- BIO FTN PERFORMANCE MAINT KIT (3800.00 USD)
- H-Class BioQSM w/i2V PERFORM MAINT KIT (2500.00 USD)

## Quotation

### ACQ. UPLC H-Class PLUS Bio System

## Detail Product Descriptions

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

|          |                  |                                               |
|----------|------------------|-----------------------------------------------|
| <b>1</b> | <b>176015106</b> | <b>ACQUITY H-Class PLUS Bio System (CM-A)</b> |
|----------|------------------|-----------------------------------------------|

The ACQUITY UPLC H-Class PLUS Bio Column Manager System has integrated solvent, sample and multi-column heating and cooling capabilities with two, independent temperature controlled zones. The system is configured for quaternary solvent delivery (bioQSM), sample introduction via a direct inject sample manager (bioSM-FTN-H) and a column manager with active pre heating (CM-A) which can accommodate 4 column (up to 50 mm length) or 2 columns (greater than 50 mm length). The system's Active Pre-Heater (APH) features a new 2-piece, captive ferrule design. The system may be configured for a broad range of applications supported by UPLC optical detectors and mass detectors, with a choice of instrument control and data management software.

The following items are included as part of the column manager system:

- # ACQUITY UPLC H-Class bioQuaternary Solvent Manager (bioQSM) PLUS
- # ACQUITY UPLC H-Class bioSample Manager # FTN (bioSM-FTN-H) PLUS
- # Column Manager (CM-A) with biocompatible Active Pre-Heating
- # ACQUITY UPLC Solvent Tray Module
- # ACQUITY UPLC H-Class Bio System Start Up Kit
- # Leak Sensors
- # ACQUITY UPLC BEH C18 Column, 2.1 x 50 mm, 1.7  $\mu$ m
- # ACQUITY UPLC Start-up Solution
- # Information Set
- # Vials
- # ACQUITY UPLC Systems Driver Pack 4 DP2018R1

|          |                  |                                  |
|----------|------------------|----------------------------------|
| <b>2</b> | <b>176015028</b> | <b>ACQUITY UPLC TUV Detector</b> |
|----------|------------------|----------------------------------|

ACQUITY UPLC TUV Detector

The Waters ACQUITY UPLC Tunable UV (TUV) detector is a dual-wavelength Ultraviolet/Visible (UV/Vis) detector for use in the ACQUITY UPLC H-Class system. Optimized for Ultra Performance Liquid Chromatography, the TUV detector's innovative light-guided flow cell and low-noise electronics result in a detector that delivers the utmost in UPLC sensitivity.

Detector wavelength range is 190-700nm. Detector response is linear up to 2.5 AU; dynamic range extends to 4.0 AU. Either single or dual wavelength operating modes are supported. Wavelength spectral scanning, including automatic blank subtraction can be stored in memory. Wavelength ratios, with absorbance threshold control, may be utilized for real time peak purity assessment.

Access to detector status # wavelength, lamp on/off # and diagnostic information is supported through the ACQUITY UPLC System Instrument Console. Instrument communications with the host computer are through Ethernet communications protocols.

Lamp optimization software and low-noise electronics guarantee 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 visible wavelength range without requiring a lamp change. The lamp is warranted for 2000 hours.

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  $\mu$ m PEEK interconnectinlet/outlet tubing.

|          |                  |                                           |
|----------|------------------|-------------------------------------------|
| <b>3</b> | <b>176015029</b> | <b>ACQUITY UPLC Fluorescence Detector</b> |
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## Quotation

### ACQ. UPLC H-Class PLUS Bio System

## Detail Product Descriptions

| Itm | Part No.    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |             | <p>ACQUITY UPLC FLR Detector</p> <p>The Waters ACQUITY UPLC Fluorescence (FLR) Detector is a multi-channel, multi-wavelength fluorescence detector designed for use in the ACQUITY UPLC H-Class system. Optimized for Ultra Performance Liquid Chromatography, the FLR detector's innovative axially illuminated, low-volume flow cell design and low-noise electronics result in a detector that brings unsurpassed sensitivity and selectivity to UPLC.</p> <p>Detector wavelength range is 200-900nm. Signal-to-noise ratio is &gt;1000 (Water Raman band). The detector incorporates four data channels, two wavelength pairs per channel, and supports both 2D and 3D scanning injection modes. Access to detector status # wavelength, lamp on/off # and diagnostic information is supported through the ACQUITY UPLC System Instrument Console. Instrument communications with the host computer are through Ethernet communications protocols.</p> |
| 4   | 700003694   | <p><b>ANTHRACENE TEST SOLUTION, 5.0 pg/uL</b></p> <p>Fluorescence Detector Standard</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 5   | 205001870   | <p><b>Kit, Alternative Waste Man Sys, 1 Stack</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6   | 176003144   | <p><b>Empower 3 System License 1 Pack</b></p> <p>Empower 3 System License 1 Pack<br/>Includes Personal Software 1 System License</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 7   | 741000103   | <p><b>UPLC / HPLC SYSTEM INSTALLATION</b></p> <p>HPLC System Installation<br/>Includes:</p> <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 I-Assist Remote Connection</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 8   | 176002258A4 | <p><b>sQT UPLC UV3-5mm Emp 3 Qual Service</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 9   | 205015033   | <p><b>ACQUITY TUV, FLOWCELL, 10mm 500nL</b></p> <p>ACQUITY TUV, Flow Cell, 10mm 500nL</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 10  | 205000611   | <p><b>ACQUITY UPLC TUV 5mm Titanium FC</b></p> <p>ACQUITY TUV Flow Cell, Titanium, 5mm, 1500 nL</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Quotation**

**ACQ. UPLC H-Class PLUS Bio System**

**Detail Product Descriptions**

| <b>Itm</b> | <b>Part No.</b> | <b>Description</b> |
|------------|-----------------|--------------------|
|------------|-----------------|--------------------|

This 5 mm pathlength flow cell is constructed of Titanium and is suitable for HPLC and biopharmaceutical applications.

|           |                    |                                                |
|-----------|--------------------|------------------------------------------------|
| <b>11</b> | <b>176002247A4</b> | <b>sQT UPLC FLR+UV10mm Emp3 Qualif Service</b> |
|-----------|--------------------|------------------------------------------------|

|           |                  |                                                                                    |
|-----------|------------------|------------------------------------------------------------------------------------|
| <b>12</b> | <b>205000776</b> | <b>ACQUITY UPLC APH SS 23.5LG</b><br>Active PreHeater (APH), Serpentine, SS, 23.5" |
|-----------|------------------|------------------------------------------------------------------------------------|

## Quotation

### ACQ. UPLC H-Class PLUS Bio 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 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.