

EQUIPMENT 3: HIGH PERFORMANCE LIQUID CHROMATOGRAPHY TANDEM MASS SPECTROMETER (HPLC-MS/MS)

Equipment 3: High Performance Liquid Chromatography Tandem Mass Spectrometer (HPLC-MS/MS) Location: Chemical Metrology Laboratory Quantity: 1	Compliances (Yes/ No) <i>**If No, please indicate reason of non-compliances.</i>
separation of isobaric analytes, which should at least meet the following requirements. (a) The device must have an integrated liquid pump for the purpose of introducing chemical modifiers into the mobility cell. (b) The device must be able to acquire data for a single multiple reaction monitoring transition in not more than 25 msec including inter-scan pause time of not more than 20 msec. (c) The device must be useable with software that provides automatic, dynamic adjustment of the acquiring multiple reaction monitoring transitions such that only compounds that elute within a specified time window are monitored.	Yes/ No Yes/ No Yes/ No
(C) Sample Testing - The LC-MS/MS must be able to analyse peptide in low abundance level. Tenderers will be provided with two samples and the samples must be tested without further manipulation and using the conditions provided in the <i>Instruction on Sample Analysis (Please refer to Appendix 1)</i>. The details of the samples will be provided upon sample collection. Sample Collection Details: Tenderers are required to collect the <i>Instruction on Sample Analysis</i> and samples between 0830 to 1200 within the first two weeks from the tender opening date at: Health Sciences Authority, 1 Science Park Road, #01-05/06, The Capricorn, Singapore Science Park II, Singapore 117528. Contact number: 6775 1605 ext 121 - The sample must be analysed on the system proposed in this tender. The sample result (raw data and processed) shall be submitted via email (in an EXCEL file) not later than 2 weeks from the tender closing date. The sample testing results must meet the following requirements: - The Relative Standard Deviation of the isotope peak area ratio from four injections for each Calibration Blend and Sample Blend must be below 5% (see <i>Instruction for Sample Analysis</i> for details). - The Calibration Curve must have a goodness-of-fit for linear regression (R2) better than 0.995. - The absolute value of relative deviations (%D) between the sample results and the certified value of the samples provided shall not exceed 10%. - The difference of %D between 2 samples shall not exceed 5%.	Yes/ No
(D) Software and computer - Minimum configuration: 3.2 GHz dual core processor or equivalent, 32GB RAM, 4 x 2 TB hard drives, wireless modem 802.11a/b/g/n/ac , USB 3.0, DVD RW (CD RW capable), mouse and keyboard, high resolution 21 inch flat screen color monitor.	Yes/ No
- Must provide Window 7 Professional Operating System and Microsoft Office and any other computer interfaces, cables and software drivers for the system to be usable at optimum conditions.	Yes/ No