

7 October 2020

Dear vendors, please fill up the following table on the specification of the HPLC prep system.
Re-attach this document to RFQ during participation.

Details on critical specification	Compliance (Yes/No)
Pump Operating pressure range should be up to 420 bar for flowrates up to 50ml/min	Yes
Should support conventional columns up to 30mm inner diameter	Yes
The pH range should cover between pH 1-12.5, a wider range is desirable to support a higher number of applications	Yes
Automated seal wash should be included to increase the life of the seals and pistons in the pump	Yes
Should have metal-free fluid paths to support sensitive samples	Yes
There should be safety and maintenance extensive diagnostic features, including error detection and display, leak detection, safe leak handling, leak output signal for shutdown of pumping pump	Yes
Sampler/Collector Automated handling of samples and fractions within a single module	Yes
Sample and fraction vessels offer software container recognition by identification tags, and can be exchanged during operation without stopping the instrument	Yes
The injector should be connected to two sample loops to allow convenient switching without the need for hardware modifications	Yes
2ml and 10ml sample loop should be included	Yes
Support for up to 20ml sample loop for future requirements	Yes
Able to support 2ml, 6ml Vials and 16 x 100mm fraction tubes	Yes
Provide 100 Piece each of 2ml and 6ml vials	Yes
The fraction collector should include delay calibration sensor which is a single wavelength absorbance detector working at 654 nm, consisting of a light emitting diode (LED) and a photo diode.	Yes

Column Holder The Column Holder should be able to hold multiple preparative columns.	Yes
It should have a leak sensor, safe leak handling and leak output signal for shutdown of pumping pump	Yes
Detector Wavelength range should be from 190-950nm, settable in 1 nm increments, a larger wavelength range is more desirable	Yes
Should allow simultaneous multi-wavelength analysis of 8 signals	Yes
Light Source should be a Dual lamp design (tungsten & deuterium) for optimum sensitivity and should have a RFID tag that holds lamps typical information	Yes
There should be self-calibration of the wavelength accuracy using deuterium lines and additional verification with holmium oxide filter	Yes
The data sampling rate should be at least 120 Hz, a faster data sampling rate is desirable	Yes
Signal noise should be $< \pm 0.7 \cdot 10^{-5}$ AU @ 254 & 750 nm	Yes
The photodiode array should be 1024 element for higher precision measurement	Yes
Stainless Steel Preparative Flow Cell should be supplied together with detector	Yes
Preparative flow cell should be 3mm and be able to withstand 120 bar pressure	Yes