

MODIFIED SPECIFICATIONS FOR AUTOMATED FLASH COLUMN CHROMATOGRAPHY AFTER PRE BID MEETING

File No : PUR/IMP/112/15

Description of Item : AUTOMATED FLASH COLUMN CHROMATOGRAPHY

Specification for Automated Flash Column Chromatography

1. Compact bench top model.
2. Capable of computer controlled delivery of four solvents for binary gradient mode with the capability of adding third solvent during the run and isocratic mode, 2 step Gradient and Rf gradient.
3. Solvent flow rate: 1 to 200 mL/min
4. Pumping system with pumping capacity of 13 Bars/ 200 psi or more.
5. The system should have the facility to use Inject / sample loading column with pre packed adsorbent to trap high polar solvent without affecting the sample separation.
6. Variable wavelength UV -VIS detector range from 200 - 800 nm. The detector should have detection range of 0.04 to 4 AUFS
An additional external detector, ELSD,
Parallel detection possible with two detectors UV-VIS and ELSD together in one run.
Detection should be possible with UV-VIS or ELSD alone also
Vendor should supply nitrogen cylinder along with regulator and necessary steel tubings for connecting it to the system
7. Automatic fraction collection. Fraction tracking facility with peak to tube graphical interface
8. Touch-screen controlled software for operation of the machine
9. The system/software should have Gradient Optimization by Automatic Method Setup where TLC Rf value and solvent mixture ratio are to be input, and sample to be eluted at minimum amount of solvent.

10. On-screen method development, Real-time control, column size & media sensing, fraction collection control & method scale up feature and real time monitor of the line pressure.
11. Safety features like automatic stop of flow if collection tray is full or unavailable, leak detection, solvent level detection, pressure moderating system.
12. Racks for 13x100 mm, 18x150 mm, 25x150 mm test tubes.
13. **Empty self-packing glass columns** having different dimensions to be supplied as follows. The amount of sample to be loaded is from **50 mg to 100g**. Number of **Empty self-packing glass columns** for purifying mixtures of compounds with the following weight of adsorbents

4 g of Silica/C-18—	10 nos
20 g of silica/C-18—	5 nos
100 g of silica/C-18-	5 nos
300 g of silica/C-18-	4 nos
500 g of silica/C-18-	4 nos
1 kg of silica/C-18-	4 nos
1.5 kg of silica/C-18-	10 nos
14. Silica and C-18 adsorbents with appropriate pore size for flash column chromatography for filling empty glass columns should be quoted

Silica gel for flash chromatography	-	25 Kg x 3
C-18 for flash chromatography	-	25 Kg
Alumina for flash chromatography	-	25 Kg

 Fractionation mode : Time, manual, peak, peak and slope
14. Sample loading cartridges/columns for 50-100 g of the mixture to be purified
15. Any additional accessories for the day to day use of the instrument may be quoted as optional.
16. Programmable Gradients : Linear, step, isocratic
17. Operating voltage : 230V/50Hz
18. Three year warranty with additional 3 years of free service
19. Optional detectors: RI detectors and PDA detector may be quoted as optional items separately.

The tender specification stands amended to the extent as given above.

The due date for the tender is 18.01.2016 12.00 HRS (IST) and tenders will be opened at 14.00 HRS(IST) on the same day. Bidders who are interested to participate in the tender opening can be present by 14.00 HRS (IST) on the same day.

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