

Specification:

Description:

HPLC System suitable for Pesticide formulations analysis by both isocratic and Gradient elution, usable solvent types should include both organic and aqueous solvents, with Auto sampler, column, (silica, RP C-18,C-8) UV –Vis Specrtophotometric Detector Computer based data station with suitable software / interface / colour monitor, accessories, spares etc. conforming to the following specification as required.

Pump Specifications

- \cdot Quaternary low pressure gradient on lone vacuum degasser
- · Number of solvent delivery should be four or more
- · Capable of performing Linear, step and exponential gradients
- \cdot Flow rate range 0.0001 to 10ml/min or better
- Flow rate precision Less than 0.06 % RSD

Operating	g pressure –Minimum 400 bar or more
Composit	ion accuracy + 0.5% absolute, independent of back pressure
Leak sens	or should be available.
Should ha	ave the facility to calibrate the flow and readjust the real time flow values
Degassing	
On line de	gassing unit to be offered to with 5 line or more to remove the dissolved gases in the
mobile pha	
Detector S	pecifications (UV-Vis Detector)
Wave len	gth range-190-680 nm
	gth accuracy - ±1nm
	gth repeatability -±0.1nm
	el – 0.5x10-5AU
Drift - < 0	.4 X 10 – 4AU/h/ + 2 X 10 – 4 AU/h
	range – 2.5 AU or more
	rce –Deuterium
Slit width -	- 1nm or better
Should hav	ve the lamp health check facility to track the usage of lamp
Should hav	ve self-diagnostics to check the system function and calibration
Should hav	ve an easy operation to calibrate the system
Auto samp	pler
Auto sam	pler should be able to do full volume injection and variable injection without any sample
loss.	
· Sample ir	ijection volume- 0.1micro litre to 100 micro litres
· Sample ca	apacity- minimum 100 x1.5 ml vial
· Carry ove	r-less than <0.005%
 Injection 	precision less than 0.3 % RSD or better
· Needle w	ash must be standard and needle aspiration speed must be variable.
· Flow line	rinse capability both before and after aspiration should be possible
Column O	<u>ven</u>
· Temperat	ture setting range- below 10° C of Ambient to 85° C
· Temperat	ture accuracy - ±1°C
· Temperat	ture Precision - < ±0.2°C
Cal	
Columns	9 selvmer 8 see Cilies Column
_	8 column & one Silica Column
	lling Software and PC
	ion software for controlling all modules of HPLC system should be offered.
	based software with multitasking and capable of performing the functions like acquire,
	cess and reproduce the data.
	onal computer with latest processor/configuration with 21" LED monitor and Laser jet
	ould be supplied along with the instrument.
	t software which is compatible with the chromatography software should be supplied.
latect win	dows software which is compatible with the chromatography software be supplied with

system.

• The chromatography software should be of latest version and be able to collect the data from two Detectors simultaneously.

The software should facilitate easy method building, data integration and custom report generation.

• The Software should facilitate manual as well as auto integration of the data.

• The software should have all the features required for audit trail under GLP/GMP with a password locking facility.

• The software should have a real time display of the chromatogram and the process sample details.

· Should be able to report the results in % of active ingredient in the report generation.

Chromatography software :

- Single Keyboard control of entire system.
- Parameter validation management.
- Compatibility with diode array , UV/Vis, RI and
- Fluorescence detectors
- Should be able to process signals from minimum two wavelengths.

- Auto start up, auto shut down, base line stability, auto judgment, auto validation, auto purge etc. must be available from the touch of a button

- Compatibility to import and export the data.
- Ability to acquire and analyze and store spectral library.

- Flexible report publisher to make report in desired format.

GLP compliance.

Training

• Training and application training to the personnel at site immediately after installation as per terms and condition

Accessories:

- \cdot 100 No each vial sets
- · 100No Septa PTFE/Silicone
- · Solvent rack and Solvent bottle (minimum 5No)
- · Manual syringe -10 microlitere
- \cdot Necessary tools and kits

A declaration of System Validation Certificate

A declaration of Conformity certificate

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