

⑤

Department Of Laboratory Medicine, AIIMS
Division of Clinical Microbiology & Molecular Medicine

Specification for Protein Purification (FPLC) System (1 No) Proprietary Item

These specifications are claimed to be proprietary of GE Healthcare Pte Ltd. If any other firm meets the above specification please contact Prof. Sarman Singh or store officer (LM) within 15 days. If no representation is received within the said period the above system will be presumed to be proprietary of GE Healthcare Pte Ltd. and procured accordingly.

THE DETAILED SPECIFICATIONS ARE AS FOLLOWS:

1. The system should consist of a real time run control and visualization system, real time monitor (UV and conductivity), pump and fraction collector, pressure sensor, and valves for buffer selection, sample injection, gradient formation and flow diversion.
2. Pump:
 - a) Flow rate of the pump should be in a range 0.1–50 ml/min or better.
 - b) Pressure Range should be 0-10 bar or more.
 - c) Should have pressure sensor.
 - d) The instrument should have built-in motorized switch valve for accurate gradient formation.
3. UV-Detector:
 - a) Should supply with filter with absorbance monitoring at 280nm and 254nm.
 - b) Should supply with 214nm filter with Zn lamp.
 - c) Should have provision to include optional filters for different other wavelengths like 313, 405, 245, 436, 546 nm
 - d) Should have absorbance range at least 0.01-5 AU (Full scale).
4. Conductivity range and pH monitoring : Conductivity range- 1 μ s/cm -999 ms/cm or better and inline pH electrode (pH 1-14) with Accuracy of 0.1 pH unit
5. Fraction Collector:
 - a) Should be able to collect fractions according to time/volume/drop.
 - b) Should be certified with CE / IVD or E.C. 1010 safety standard.
 - c) Included in the system with flow diversion valve.
 - d) Capable to collect upto 150 or more fraction in one go.
6. Sample injecting loops of 200 μ l, 500 μ l, 1 mL, sample loop 10 mL (load 1-10mL) and superloop 150mL should be provided.
7. Compatible branded all-in-one computer having at least 8GB RAM, 1TB hard disk or higher, 7th Gen intel i5 processor or higher, latest original operating system (window/iOS) and suitable for software running, storing and analysis of data.
8. Should have to supply suitable UPS with at least one hour power backup.
9. Necessary kit box having all accessories software, cables and several types of tubing useful for liquid chromatography applications (for columns of affinity chromatography, buffer exchange, ion exchange, gel filtration, and HIC) should be provided.
10. System should be supplied with columns & resins for the following chromatography techniques:
 - i) Preparative grade 120ml prepacked column with Dextran with crosslinked Agarose matrix, with a fractionation range of 3 to 70 kDa and an average particle size of 34 micron.
 - ii) 5ml Pre-packed columns for his-tagged purification.

OTHER TERMS AND CONDITIONS

- Onsite installation, training and commissioning should be done free of cost.
- The after sales service should be made available within 24 working hours of system breakdown complaint and by trained service.
- List of installation and feedback letters at least from three reputed medical establishments for this instrument must be provided.
- Satisfactory demonstration at AIIMS or in other labs of Delhi is essential for technical qualification.
- The installation will be deemed complete only when the machine is validated according to standard criteria.
- The bidder will furnish the rate list of all accessories and consumables.
- Guarantee 02 years and 03 years CMC inclusive all.



Wipro GE Healthcare

5th Floor,Building No.7A
DLF - Cyber CityDLF Phase III
Sector 25A,
Gurgaon - 122002
Phone: 0124-4808000/ 490 6670 (D)
Fax: 0124-4906622
CIN No U33111KA1990PTC016063

PROFORMA INVOICE	Quote No.: HS-9002/3
------------------	----------------------

To
Dr. Sarman Singh
Department of Lab Medicine
AIIMS, Ansari Nagar
Delhi-110021

Date: 20.02.2018
Valid To: 60 days
Payment: 100% Letter of Credit
Currency: US Dollars

We are pleased to provide you with the following quotation at your request.

Item	Code No.	Description	Qty	Unit Price	Total Price
------	----------	-------------	-----	------------	-------------

1	11001313	ÄKTAprime™ plus - For Simple Purification of Proteins	1	43,472.00	43,472.00
---	----------	---	---	-----------	-----------

Technical Information
Simple-to-use
- one-step purification system.
- works with HiTrap and HiPrep prepacked columns.
Robust
- improved technology.
- preprogrammed application templates.
- easy monitoring and guided evaluation with PrimeView.

Extended application support
- purification of tagged proteins.
- purification of antibodies.
- generic templates for gel filtration, ion exchange, HIC,
and affinity chromatography.

ÄKTA™prime plus is ideal for simple, one-step purification

ÄKTAprime™ plus can be used for a range of applications,
from quick sample clean-up to isolation of monoclonal
antibodies or purification of tagged proteins. The system
operates with most prepacked columns. For reliability and
convenience, we recommend Hi

The unit is compact and comprises of a system pump,
monitors for UV and conductivity plus an optional pH
monitor. A fraction collector, valves for buffer selection,
sample injection, gradient formation, and flow diversion are
also integrated into the system

The unit is compact and comprises of a system pump,
monitors for UV and conductivity plus an optional pH
monitor. A fraction collector, valves for buffer selection,
sample injection, gradient formation, and flow diversion are
also integrated into the system

TECHNICAL SPECIFICATIONS
Conductivity measurement
Conductivity range: 1 µS/cm-999.9 mS/cm (IEX and HIC
gradients)
pH measurement (optional)
pH range: 0-14 (specifications valid between 2-12)





page # 2

Item	Code No.	Description	Qty	Unit Price	Total Price
		TECHNICAL SPECIFICATIONS			
		Conductivity measurement			
		Conductivity range: 1 µS/cm-999.9 mS/cm (IEX and HIC gradients)			
		pH measurement (optional)			
		pH range: 0-14 (specifications valid between 2-12)			
		Fraction collector (with flow diversion valve)			
		Tube capacity: 95 in Tube Rack 18 mm (supplied), 175 in Tube Rack 12 mm (optional), 40 in Tube Rack 30 mm (optional)			
		Operating temperature			
		Ambient temperature: + 4 to + 40 °C			
		Safety certifications			
2	11000359	PRIMEVIEW 5.0 SW & MANUAL	1	3,594.00	3,594.00
		* Simple to use chromatography data evaluation.			
		* Flexible report generation.			
		* Connected to PC via RS232 or USB adapter.			
		The PrimeView Evaluation module provides extensive facilities to evaluate curve data and to generate a printed report from the stored result.			
3	18113484	pH electrode, round tip	1	2,531.00	2,531.00
4	18111103	DUMMY ELECTRODE, ROUND TIP	1	177.00	177.00
5	28404224	Zn optics with 214 nm filter	1	9,343.00	9,343.00
6	17525501	HISTRAP FF 5 X 5 ML	1	858.00	858.00
7	28989333	Hiload Superdex 75 16/600	1	4,147.00	4,147.00
8	18111398	Sample loop 100 µL	1	155.00	155.00
9	18111399	Sample loop 500 µL	1	213.00	213.00
10	18111401	Sample loop 1 mL	1	172.00	172.00
11	18116124	Sample loop 10 mL	1	228.00	228.00
12	18102385	SUPERLOOP 150 ML	1	1,587.00	1,587.00
13	18111257	UNION 1/16in FEMALE/M6 MALE	1	111.00	111.00
14	XXXXXXX	Compatible computer (to be supplied locally)	1	Included	Included
15	XXXXXXX	UPS (locally supplied)	1	Included	Included
Total FCA Singapore Price				US\$	66,588.00
Special Discount				US\$	40,588.00
Net FCA Singapore Price				US\$	26,000.00
Add CIF Charges				US\$	300.00
TOTAL SPECIAL NEW DELHI CIF PRICE				US\$	26,300.00

Warranty : 2 years and additional 3 yrs Annual Maintenance

(However breakable parts / Plasticware / Glasswares / Consumables/Gel tanks and accessories are not covered under warranty)

Important Note:

Cstom clearance from the New Delhi airport and any charges henceforth to be borne by AIIMS, Delhi

Port of Shipment Singapore
Mode of Shipment By Air Freight
Delivey Period: 6-8 Weeks

Kindly place your orders directly on:

1. GE HEALTHCARE Pte Ltd.
1, Maritime Square
#13-01 HarbourFront Centre
Singapore - 099253
Tel : 0065 62918528
Fax : 0065 62917006

Name and address of banker

Skandinaviska Enskilda Banken AB (publ)
Singapore Branch
#12-03, OUE Bayfront
Singapore - 049321
Swift Code : ESSESGSG
A/C.no. 0858464013 (US\$)

With Best regards

Hitakshi
For Wipro GE Healthcare
hitakshi.singh@ge.com
Mob: 7032638393





Date : 20-02-2018

GE Healthcare

5th Floor, Building No.7A,
DLF Cyber City,
DLF Phase-III Sector 25 A,
Gurgaon-122 002
Haryana
Phone +91-124-480-8000/ 490 6670(D)
Fax +91-124-4906622
CIN No U33111KA1990PTC016063

PROPRIETARY CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **AKTA PRIME PLUS (protein separation unit with prime view software)** is a proprietary item manufactured by GE Healthcare Biosciences, Uppsala, Sweden with the following technology :

1. Akta Prime plus has a flow rate of .1ml/min to 50 ml/min with an increment of 0.1 ml/min making it ideal for running laboratory scale protein separations and high resolution analyses.
2. Akta Prime plus has built-in preprogrammed methods for the following chromatography applications: Desalting, Purification of His-tagged protein, Purification of GST-tagged proteins, Purification of monoclonal antibodies, IgM purification. Removal of albumin, Protein renaturation on column, Anion exchange chromatography and Cation exchange chromatography.
3. Akta prime plus has an operating pressure of 10bar (145psi) with on line pH monitoring from 0-14
The all in one detector detects proteins at 260/280 nm
4. Prime view software monitors signals from the chromatographic run in real time.

We also confirm that the same with the above specifications is not being manufactured by any other company to the best of our knowledge.

For and on behalf of GE Healthcare



Authorised Signatory

All-India Institute of Medical Sciences
Ansari Nagar, New Delhi-29
(RESEARCH SECTION)

Ref. No. 61/Store/Lab Med/SS/17-18/RS

Dated: 05.03.2018

Subject: Purchase of AKTA prime™/Protein Purification (FPLC) SYSTEM (No.1), for the Deptt. of Lab. Medicine, AIIMS, New Delhi -29 on proprietary basis- Inviting comments thereon.

The request has been received from Dr. Sarman Singh, Deptt. of Lab. Medicine, AIIMS to purchase the subject item from M/s Wipro GE Healthcare (Mfg. by M/s GE Healthcare Pte. Ltd. Singapore) on proprietary basis. The proposal submitted by M/s Wipro GE Healthcare and Performa Invoice and Departmental PAC certifications are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within issue of 15 days giving reference **No. 61/Store/Lab Med/SS/17-18/RS**. The comments should be received by office of Stores Officer (RS), Research Section at AIIMS on or before **20.03.2018 upto 12:00 p.m.**, failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

STORES OFFICER (RS)

Encl: Related documents enclosed.

- 1. Departmental PAC Certificate enclosed.**
- 2. Performa Invoice**