

DATA SHEET

HLL BIOTECH LIMITED, CHENNAI

nne pharmaplan	REVIVAL OF DPT VACCINE MANUFACTURING FACILITY, PII, COONOOR		 HLL BIOTECH LIMITED <small>(Subsidiary of HLL Micros Limited) (A Government of India Enterprise)</small>
	ELISA Reader		
	Project No :	110831	
	Equipment ID :	ELR 01	
	Document No :	DS/ELR 01	

1 Process requirements

1.1 ELISA readers are designed to detect biological samples in microliters, used in drug discovery, clinical trials, manufacturing processes in pharmaceutical industries.

2 Technical Specifications

2.1	Microplate type	6 to 1536 well plates (Client to confirm)
2.2	Filters	Standard filtration system
2.3	Filter size	405 nm, 450 nm, 620 nm
2.4	Shaking	linear shaking, 3 speeds (Vendor to confirm)
2.5	Measurement speed	vendor to specify
2.6	Read out range	0 to 6 Abs
2.7	Resolution	0.001 Abs
2.8	Accuracy	± 1 %
2.9	Temperature control	4 °C to 50 °C
2.10	Wavelength range	200 nm to 1000 nm
2.11	Wavelength accuracy	± 1 nm
2.12	Bandwidth	2 nm
2.13	Light source	vendor to specify
2.14	Electrical requirement	vendor to specify
2.15	Detectors	vendor to specify
2.16	Quantity	1 no.

3 Material of Construction

3.1 Main body vendor to specify

4 Specific requirements

- 4.1 Suitable ELISA reader software shall be provided
- 4.2 Fully automatic functioning
- 4.3 Printed test plate comparison data sheet should be provided to compare the data obtained by microplate reader at specific wavelength for accuracy.
- 4.4 Three broad spectrum light source to accommodate a wide variety of assays

5 Other requirements

- 5.1 Automatic shut off shall be provided
- 5.2 Appropriate training to be given for our employees to operate the equipment
- 5.3 Vendor shall provide the option to record the data.

6 Regulatory aspects

6.1 NA

DATA SHEET

HLL BIOTECH LIMITED, CHENNAI

nne pharmaplan	REVIVAL OF DPT VACCINE MANUFACTURING FACILITY, PII, COONOOR		 HLL BIOTECH LIMITED <small>(subsidiary of HLL Lifecare Limited) (A Government of India Enterprise)</small>
	ELISA Reader		
	Project No :	110831	
	Equipment ID :	ELR 01	
	Document No :	DS/ELR 01	

7 Safety requirements

7.1 Proper earthing of the equipment

8 Documents

Following documents, but not limited to these, are expected from the vendor as part of the supply package in hard copy as well as editable electronic file

- 8.1 IOQ Protocol.
- 8.2 Operation and maintenance manuals shall be provided along with IQ and OQ documents during installation at site
- 8.3 Calibration certificate of critical instruments with respect to the traceable national reference standard instrument and their calibration procedure.
- 8.4 All equipment warranty should be valid for one year from the date of completion.
- 8.5 Vendor should provide list of standard spare parts with ordering information.
- 8.6 Vendor should provide list of change parts (if applicable) with ordering information

9 Timelines

Not Applicable

		AFI Approved for Enquiry		AFO Approved for Ordering		
		<i>D. Kumar</i>		<i>Pulm</i>		
01	09-09-2015	NRU		PULM	<input type="checkbox"/>	<input type="checkbox"/>
Rev	Date	Completed By		Checked By	AFI	AFO

DATA SHEET

HLL BIOTECH LIMITED, CHENNAI

 HLL BIOTECH LIMITED (Subsidiary of HLL Ultimate Limited) (A Government of India Enterprise)	REVIVAL OF DPT VACCINE MANUFACTURING FACILITY, PII, COONOOR	
	ELISA Reader	
	Project No :	110831
	Equipment ID :	ELR 01
	Document No :	DS/ELR 01

TABLE NO: 1

Equipment Id	Block Name	Room Name	Room No	Quantity
A1-ELR-01	Animal Breeding	Animal health monitor	A1G012	1

AFI Approved for Enquiry			AFO Approved for Ordering			
		<i>A. Kumar</i>	<i>Pulm</i>			
01	09-09-2015	NRU	PULM	<input type="checkbox"/>	<input type="checkbox"/>	
Rev	Date	Completed By	Checked By	AFI	AFO	Sheet 2/2