

Equipment Specification Data Sheet

Equipment Name: ELISA Plate Washer

Document No.: DS-ELW 01

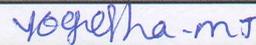
Revision: 02

Project No.: 120310

Project Name: Integrated Vaccines Complex,
Chengalpattu

Block Code	Block Name	Identification No.	Capacity	Quantity
G1	Animal house	G1-ELW-01	-	1
Q1	Admin, QA & QC	Q1-ELW-01	-	1

NNE Pharmaplan India Limited

Name	Designation	Signature	Date
Prepared by			
Ms. Niharika Ruhela	Engineer - Process		6/7/2015
Checked by			
Mr. Yogesha M J	Engineer - Process		6/7/2015
Approved by			
Mr. Vikas Katial	GM - Projects (SME) & Head COC Vaccines		6/7/2015

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Project Name: Integrated Vaccines Complex,
Chengalpattu

HLL Biotech Limited

Name	Designation	Signature	Date
Reviewed by			
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Yashwanth Reddy Deputy Manager	Deputy Manager	<i>Yashwanth Reddy</i>	9/7/2015
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Approved by			
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Authorized by			
Ramas. K. Ramachandran CEO	CEO	<i>Ramas. K. Ramachandran</i>	13/7/2015

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HLL Biotech Limited, Chennai

INTEGRATED VACCINES COMPLEX,
CHENGALPATTU

nne pharmaplan®

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1	Process requirements	
1.1	The microplate washer is designed and shall be for washing various types of standard 96-well microtitre plates and 384 well microtitre plates, microstrips and microarrays for ELISA and related applications.	
2	Equipment ID	
2.1	G1-ELW-01	
2.2	Q1-ELW-01	
3	Technical Specification	
3.1	Microplate type	96 and 384 Wells
3.2	Washing Wells	Must be suitable for washing all 96/384 wells of different bottoms- flat, round bottomed, U or V shapes. Must also be programmable to wash particular rows/columns.
3.3	Wash mode	Strip and plate
3.4	Fluid Inlets	Two fluids inlets with additional programming capabilities
3.5	Dispense Precision	± 5%
3.6	Wash cycles	Vendor to specify
3.7	Processing speed	Depends upon number of cycles up to 9 times
3.8	Vacuum	Integrated vacuum pump, 9 L/min
3.9	Aspiration time	Vendor to specify
3.10	Aspiration maximum residual volume in a well	< 2 µL per well
3.11	Volume range	50 to 300 µL per well
3.12	Soaking time	0 to 60 minutes
3.13	Shaking time	0 to 60 minutes
3.14	Bottle volume	2000 mL
3.15	Microprocessor controlled program	Required
3.16	Display	Front display panel with soft touch keys
3.17	Software	Create ,Edit and Run multiple protocols.Programmable automatic washing
3.18	Dimension (W x H x D)	Vendor to specify
3.19	Power Requirement	To be compatible to standard Indian Power Supply socket
3.20	Weight	Vendor to specify

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4	Material of Construction	
4.1	Enclosure Box	<i>Vendor to specify</i>
4.2	Wash Heads	SS 304
5	Specific Equipment requirement	
5.1	The unit shall be designed for use in closed rooms with relative humidity 15-85% and temperature 10 °C to 35 °C.	
5.2	Reliable positive-displacement dispense pump that assures accurate and consistent dispensing.	
5.3	Aspiration to be facilitated with a vacuum pump	
5.4	Choice of 3 washing liquid bottles(1 for wash,1 for rinse and 1 for waste)	
5.5	Automated plate platform and washing head movement	
5.6	Unit to allow bottom washing and overflow washing	
5.7	Allow Manifold changeability in minutes	
5.8	Soft-touch keys on the display panel are used to create and store up to 50 user-defined programs.	
5.9	Programmable horizontal and vertical needle positions should be provided.	
5.10	8 and 12 channel autoclavable adaptors (for filling and washing) shall be provided.	
5.11	Equipment shall be compatible for cleaning with all standard disinfectants	
6	Other requirement	
6.1	Automatic shut off shall be provided	
6.2	Training/Demo for the users on operation and cleaning to be provided	
6.3	System shall have communication cable - RS 232 or RJ45 ethernet cable	
6.4	Vendor shall provide the option to monitor the flow rate continuously	
7	Regulatory aspects	
7.1	CE certification	
8	Safety requirements	
Following facilities must be provided to protect personnel and equipment.		
8.1	In the event of equipment / system malfunction or loss of utilities, the unit must contain all necessary protection devices to ensure that the equipment / system and the article remain in a safe condition	
8.2	Appropriate closure of all parts.	
8.3	Proper earthing is necessary.	
9	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		
9.1	IOQ documents	
9.2	Operation and maintenance manuals shall be provided along with IOQ documents during installation at site.	
9.3	Warranty letter for 1 year from date of supply.	

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	 HLL BIOTECH LIMITED <small>(Subsidiary of HLL Lifecare Limited) (A Government of India Enterprise)</small>	
9.4	Calibration certificate of critical instrument with respect to the traceable national reference standard instrument and their calibration procedures.	
10	Timelines	
10.1	Not Applicable	
11	Preferred list of Makes	
11.1	Bio-Rad, Biotek , Thermo Scientific	
	NOTE: Accurate size and technical specification need to be mentioned by the vendor	

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Table-1: Equipment location					
Equipment ID	Block Name	Room Name	Room No	Room dimension in mm	Room height in mm
G1	Animal house	Lab area - Testing	G1G055	4700 X 7300	2700
Q1	Admin, QA and QC	Immuno chemistry lab	Q1S026	5360 X 5520	2400
Table-2: Change Log					
Date	Name	Revision	Section	Change/Comment	
11-07-2014	Niharika Ruhela	00	-	New document	
07-01-2015	Yogesh M J	01	All	Updated as per comments given by HBL team during meeting dated 07-01-2015 at HBL office	
07-05-2015	Niharika Ruhela	02	All	Updated as per clients comments on 27.02.2015	
Table-3: Annexure					
Not applicable					