Lock-out specification for Microwell ELISA Plate Reader.

1. The system should be 8-channel optical measuring system.

2. The system should work with Touch Screen and should not have a keypad.

3. It should be able to read U-, V-, or flat bottom 96-well plate.

4. The photometer should be filter wheel based.

5. The System should have capability for Mono and Bi chromatic measurements.

6. The entire Microwell plate should be measured within 5 seconds in the Monochromatic measurement mode.

7. The Results ie. Abs, Sample No. and interpretation must be seen on the screen in matrix form. Graphs should be displayed on the screen.

8. System should have lamp off mode when not in use to enhance the life of the lamp.

9. System should be provided with 405nm, 450nm, 492nm, and 630nm standard filters. There should be at least 3 extra blank filter positions.

10. System should have facility for up to 42 user defined test protocols.

11. System should have large LCD display, with user friendly Touch screen for software operation.

12. System should have variable speed linear shaking facility for the Microwell plates for removal of microbubbles and mixing of the well solution. The time and speed should be user definable..

13. The Microwell plate position should have aerosol cover facility to prevent external contaminants and stray light.

14. It should have the measurement range up to 2.5 Abs.

15. The On-board software should have capability of storing the calibration curve data for at least 8 standards in all the 42 test programs.

16. The Curve should be displayed on screen. 8x6 matrix reports must be displayed at a time.

17. The system should have upto 3 cutoff equations per qualitative test.

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Dated: 15/07/2015.

18. It should have facility for plate mapping. Plate mapping must allow positioning of control, calibrators, blanks and samples at any location on the plate.

19. The system must accept external dot matrix printer and must print results in preformatted matrix form giving details such as Sample No., Value, Abs and interpretation, with cutoff equation for qualitative results.

20. The On board software should have QC data storage facility for up to 31 points, with the Levy – Jennings curve.

21. It should have ports for external printer and for transmission of data to the host computer.

22. It should have optional host computer software for extensive data management capability.

Lock-out Specs for ELISA WASHER

1. The System must have 8 channel manifold and 12 channel manifold supplied with the instrument.
2. It should have a Touch Screen and no keypad.
3. It should have 4 bottles connected to it online, one Rinse, 2 Wash and One Waste bottle.
4. The Waste bottle must have sensors
5. The system should have 64 wash protocols.
6. The system should have 10 presets for different micoplates.
7. It should have two options for dispensing Low, and High.
8. The System must offer choice to use any of the 2 wash buffers while running.
9. The system must perform Top wash, bottom wash and in case of Flat wells, cross- wise washing. It should have soak facility for 255 s.
10. The Microplate must be docked in a removable Plate Carrier, whose decontamination can be performed.
11. The system must have Aerosol Cover to prevent particulate matter during wash cycle.
12. Standard accessories must contain pin for cleaning manifolds, 1 fuse, 1 power cord.

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