

Annexure-A

Item No.1:- **Specifications for fully automated bacterial identification and antimicrobial susceptibility system.** (US FDA approved/ CE Certified).

- i) The system should have user interface screen and keyboard having the following specification.
- Comprise the instrument User Interface (UIF)
 - Fill indicator LED-alerts user of the fill status
 - Load indicator LED
 - Fill door-provides access to the filler station
 - Front user access door-provides access to the optics, incubator, and a portion of the card transport system.
 - Top user access door-opens only when the front user access.
 - Door is open. Provides access to the optics and carousel. This door lifts from the front and remains in the open position until the operator closes it.
 - Load door-provides access to the cassette load/ unload station
 - A locking mechanism prevents the opening of this door during operation.
 - Waste collection door-provides access to the waste collection station where ejected cards are removed from the instrument. The door is held in place magnetically and opens from the right.
 - Optical sensor – senses when the door is opened or closed.
 - Door latch and lock- the latch holds the door closed. The locking mechanism consists of a pin extending from inside the cabinet into the latch.
- ii) The system should be made up of the following components.
- Computer
 - Data terminal
 - Printer
 - Test Cassette
- iii) The system software should run in a windows XP environment with Advanced Expert system (AES)
- Interface connection software

- Easy to use to increases usability and speed to perform diagnostic test
 - Advanced colorimetric ID analysis
 - Automated susceptibility testing
 - Test result validation & resistance detection
 - MIC determination and therapeutic interpretation
 - Should alert resistance mechanism.
- iv) Test kits should be
- Compact and light: 16g minimized biohazard
 - Closed test reagents minimized risk of contamination
 - Closed integrated transfer tube (Blue= ID, Gray =AST)
 - Minimised risk of error in card selection
 - Pre- inserted for optimal workflow
 - No risk of contamination
 - Positive ID of cards (Individual barcode)
 - Maximized security
 - No external mark required optimized workflow.
- v) The system should have
 identification card menu with advanced colorimeter gram negative bacilli identification.
 gram positive bacilli identification.
 The identification results should be obtained from 2 hrs.
- (vi) The system should have optics which allows the measurement of 3
 wavelengths for identification card
 .568nm & 428 nm for T X 3
 .660 nm for T X 1
- (vii) 5 KVA UPS for use of fully automated bacterial identification and antimicrobial
 susceptibility system.



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