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| <b>Clinical Specialty</b> | Chemical Pathology, Immunology  |
| <b>Generic Name</b>       | IMMUNOASSAY ANALYZER  |
| <b>Clinical Purpose</b>   | An immunoassay is a biochemical test that measures the presence or concentration of a macromolecule or a small molecule in a solution through the use of an antibody (usually) or an antigen (sometimes). The molecule detected by the immunoassay is often referred to as an "analyte" and is in many cases a protein, although it may be other kinds of molecules, of different size and types, as long as the proper antibodies that have the adequate properties for the assay are developed. Analytes in biological liquids such as serum or urine are frequently measured using immunoassays for medical and research purposes. |

#### TECHNICAL SPECIFICATIONS

##### Detailed Requirement:

Fully automatic Random Access Analyzer for routine and specialized immunoassays  
 Chemiluminescence based System  
 Qualitative and quantitative analysis assays  
 Onboard reagent Refrigeration  
 Automatic Rerun Facility for out of range results  
 Bar Code Reader for Reagents and Samples

The reagent vials with caps close automatically, no reagent evaporation  
 Automatic sample clot detection and rejection in each sample to ensure every sample is clear  
 Automated operation, no manual loading of test units / test cartridges etc.  
 RS 232 or USB Interface  
 220V 50 Hz, AC

##### User Adjustable Settings:

Sample type: Serum , plasma or urine  
 Sample volume: 150 to 250 ul test dependent  
 Through put min 80 tests/hr or more  
 Sample Capacity should be at least 50 samples with continuous loading platform  
 Up to 24 Reagents on-board at a time  
 Parameters to be decided by the procuring agency as per requirements of end user

##### Displayed Parameters:

Automatic assays of analytes related to Cancer,  
 Infectious diseases, Cardiovascular disease,  
 Thyroid disease, Fertility/Hormones, Polio & Vitamins  
 Hepatitis markers

##### Accessories:

Complete with standard and operation accessories:

- Built-in or External Laser Printer
- Imported Compatible Sine wave UPS for back up of up to 30 minutes (Emerson, Liebert, Chloride, MGE, APC or Equivalent)
- Operating Manual with a Soft Copy
- Service Manual with a Soft Copy

##### Optional: