Muse Mistura Omolola

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MLS 304( Laboratory Instrumentation and Techniques)

An element of good laboratory performance is the proper functioning of laboratory equipment. The quality of a laboratory test depends on among other factors on the performance of the equipment.

An **automated analyser** is a medical laboratory instrument designed to measure different chemicals and other characteristics in a number of biological samples quickly, with minimal human assistance.

**Maintenance.**

* Daily calibration is needed
* Regular servicing of equipment, inspection and repair upon need. It must be performed by an .authorized service technician.
* Equipment must be kept in the appropriate temperature
* Equipment must not be moved from one place to another constantly
* It must be clean after each use
* washing and cleaning reusable cuvettes
* Equipment must be kept away from direct sunlight and must be placed on a stable surface
* Equipment should be protected from dust with a cover
* Equipment should not be put on when not in use
* After any sample spillage wipe and disinfect immediately
* Manufacturers instructions should always be followed
* The appropriate sample should be used for analysis(inclusive of ion selective electrode which measures ion activity rather than concentration are used)
* Reagents should be stored properly (laboratory refrigerator) and introduced into the equipment as required
* Equipment should be kept in an air conditioning facility with good water supply and electrical supply with backup generators, uninterrupted power supply and manpower technical competency of the operators