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MLS304

THEORY OF AUTOMATION ASSIGNMENT

AUTOMATED ANALYSER MAINTENANCE

An automated analyzer is a medical laboratory instrument designed to measure different chemicals and other characteristics in a number of biological samples quickly with minimal human assistance. These measured properties of blood and other fluids may be useful in the diagnosis of disease.

CARE OF AUTOMATED ANALYSER IN ABUAD MULTIPURPOSE TEACHING HOSPITAL

- Ensure it is kept in a cool and dry place.
- Make sure it is operated according to the manufacturer's instruction.
- There should be a minimum of 4 standards and a blank used for the standard curve for each of the analytes being tested.
- For the flow cell:
 - Be sure to leak test the flow cell before placing it back onto the detector so no damage will occur if there is indeed a leak.
 - Test the flow signal with water then with the reagents, and finally with standards.
 - If the exterior of the flow cell is polluted, soft cloth with dehydrated alcohol can be used to slightly wipe it.
 - To clean inside the flow cell, after starting it prepare enough distilled water and put it under the aspiration tube and rinse it.
 - Rinsing should take about 5 seconds.
 - If there is no fluid in the flow cell, check if peristalsis pump is running normally.
 - If the aspiration volume of the flow cell is unstable, check whether aspiration tube is blocked.
- Ensure it is off and covered when not in use and at the end of the day to prevent dust particles on it.
- Neutral cleaner and wet cloth can be used to clean the surface of the auto analyzer.
- Ensure the working environment of the analyzer is clean.
- The date of the maintenance and the initial of the analyst who performed it shall be recorded in the maintenance log book.

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