

Department:	Laboratory and Blood Bank (Haematology)		
Document:	Internal Policy and Procedure		
Title:	STAGO (Compact) Analyzer		
Applies To:	All Laboratory Staff		
Preparation Date:	January 07, 2025	Index No:	LB-IPP-074
Approval Date:	January 21, 2025	Version :	2
Effective Date:	February 21, 2025	Replacement No.:	LB-IPP-074 (1)
Review Date:	February 21, 2028	No. of Pages:	03

1. PURPOSE:

- 1.1 For proper adjustments about the coagulation system of the patient and this helping clinicians to take proper decisions in many clinical situations.

2. DEFINITONS:

N/A

3. POLICY:

- 3.1 Processing of samples for coagulation profile

- 3.2 PRINCIPLE: STAGO: use two different methods of measurement.

3.2.1 **Coagulometric Method:** the conversion of fibrinogen into fibrin is used as the detection reaction. Sudden clotting instantaneously reduces light transmission, the coagulation time i.e., the time between the addition of the start reagent and the beginning of coagulation is measured. In general all coagulation measurement are performed with the 405 nm photometer filter.

3.2.2 **The Immunochemical Method:** Immunochemical assays make use of turbidimetry, the sample is mixed with latex particles coated with antibodies. The formation of antibody –antigen complex leads to a change in turbidity which measured as an absorbance change, latex particles enhance this optical effect.

4. PROCEDURE:

- 4.1 **Preparing the analyzer STAGO Compact Max:**

- 4.1.1 Prepare the reagents, controls and calibrators (if necessary) and let them stabilize
- 4.1.2 Switch on the printer
- 4.1.3 Switch on the analyzer
- 4.1.4 Check the system date and time.
- 4.1.5 Check the presence of the cuvette roll, washing solution bottle, used liquid container and cuvette bin.

- 4.2 **Operation Procedures**

- 4.2.1 Loading sample

- 4.2.1.1 Press ESC to see menu
- 4.2.1.2 Choose loading then ENTER
- 4.2.1.3 Write the IP for the patient then press Enter
- 4.2.1.4 Then put the sample in any position , then press ENTER
- 4.2.1.5 Choose the test by pressing on ENTER , then F10 to save

- 4.2.2 Load Reagent

- 4.2.2.1 Press ESC.
- 4.2.2.2 Choose loading from the main menu then press ENTER

- 4.2.2.3 Choose products then ENTER
- 4.2.2.4 Bar code reagents then press on enter then put the reagents in any position
- 4.2.3 Run controls
 - 4.2.3.1 Press ESC to go to main menu
 - 4.2.3.2 Choose CALIB/CONTROL then press ENTER
 - 4.2.3.3 Choose quality control then press ENTER
 - 4.2.3.4 TO select control press on F1, to run the control press on F10
Control not done daily as previously as there is now two other machine present. So we use stago machine as backup and also used in special coagulation test as all coagulation factors ,lupus anti coagulant , protein S and protein C
- 4.2.4 Maintenance for STAGO Compact Max : The complete user maintenance is described in the Reference Manual
 - 4.2.4.1 Daily maintenance
 - 4.2.4.1.1 Clean the piercing needle (analyzers with piercing option).
 - 4.2.4.2 Weekly maintenance
 - 4.2.4.2.1 Proceed to the routine maintenance of the analyzer:
 - 4.2.4.2.2 Dry the product drawer
 - 4.2.4.2.3 Clean the product and sample drawers
 - 4.2.4.2.4 Clean the measurement plate and the suction tip
 - 4.2.4.2.5 Check the Peltier reservoir
 - 4.2.4.2.6 Proceed to the cleaning of the washing wells and to the needle purge.
 - 4.2.4.2.7 Proceed to a prolonged cleaning of the piercing needle (analyzers with piercing option).
 - 4.2.4.2.8 Proceed to the data backup.
 - 4.2.4.2.9 Put the clamping electrovalve tubing back in place (analyzers with piercing option).
 - 4.2.4.2.10 Proceed to the cleaning of the air filters
 - 4.2.4.2.11 Shut down then restart the analyzer
 - 4.2.4.3 Monthly maintenance
 - 4.2.4.3.1 Replace the syringe Teflon® tip and o-ring
 - 4.2.4.4 Quarterly maintenance
 - 4.2.4.4.1 Replace the air filters
 - 4.2.4.4.2 Every 100,000 piercings (analyzers with piercing option)
 - 4.2.4.4.3 Replace the piercing needle.

5 MATERIALS AND EQUIPMENT:

N/A

6 RESPONSIBILITIES:

- 6.1 All hematology staff starting Preparing the analyzer STAGO Compact Max Preparing the analyzer

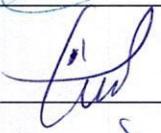
7 APPENDICES:

N/A

8 REFERENCES:

- 8.1 Diagnostic Stago S.A.S. 2012 9. Annex

9. APPROVALS:

	Name	Title	Signature	Date
Prepared by:	Dr. Fatma Hassan Ahmed	Clinical Pathologist		January 07, 2025
Reviewed by:	Dr. Kawther M. Abdou	Consultant & Lab. Medical Director		January 08, 2025
Reviewed by:	Ms. Noora Melfi Alanizi	Laboratory & Blood Bank Director		January 09, 2025
Reviewed by:	Mr. Abdulelah Ayed Al Mutairi	QM&PS Director		January 12, 2025
Reviewed by:	Dr. Tamer Mohamed Naguib	Medical Director		January 12, 2025
Approved by:	Mr. Fahad Hazam Alshammari	Hospital Director		January 21, 2025