GLA University

Department of Biotechnology

Title:

Complete Blood Count (CBC) Analysis Using ABX Micros ES 60

Student Name:

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Course:

B.Tech Biotechnology, First Year

Date of Analysis:

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Objective:

To understand and analyze a Complete Blood Count (CBC) using an automated hematology analyzer-ABX Micros ES 60-and interpret the patients blood parameters.

Equipment Used:

Automated Hematology Analyzer: ABX Micros ES 60 by HORIBA Medical

Sample ID: AUTOSID003

Analysis Alarm: STL, Rex, XB

Parameter	Value	Unit	Remarks
WBC	**10.3**	**10^3/mm^3**	**Normal**
LYM%	**36.6**	**%**	**Normal**
MON%	**5.4**	**%**	**Normal**
GRA%	**58.0**	**%**	**Normal**
LYM#	**3.70**	**10^3/mm^3**	**Borderline low**
MON#	**0.50**	**10^3/mm^3**	**Normal**

GRA#	**6.10**	**$10^3/mm^3$**	**Normal**
RBC	**4.72**	**$10/mm^3$**	**Normal**
HGB	**11.8**	**g/dL**	**Low**
HCT	**39.5**	**%**	**Normal**
MCV	**84.0**	**μm^3**	**Normal**
MCH	**25.1**	**pg**	**Normal**
MCHC	**29.9**	**g/dL**	**Normal**
RDW-CV	**13.9**	**%**	**Normal**
RDW-SD	**39.9**	**μm^3**	**Normal**
PLT	**310**	**$10^3/mm^3$**	**Normal**
MPV	**7.7**	**μm^3**	**Normal**
PCT	**0.238**	**%**	**Normal**
PDW	**17.7**	**%**	**Normal**

Interpretation:

The WBC count is within the normal range, indicating no immediate infection.

Hemoglobin (HGB) is slightly low, which may indicate mild anemia and should be monitored.

Lymphocyte count (LYM#) is slightly below the typical range, which can be due to temporary viral infection or stress.

Platelet count (PLT) is in the normal range, indicating proper clotting ability.

All other red cell indices (MCV, MCH, MCHC, RDW) are within normal range.

Conclusion:

The automated hematology analyzer successfully measured the CBC parameters. The results

suggest overall normal blood function with mild anemia. Further clinical correlation and dietary assessment may be advised.

Submitted By:

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