

EQA round: DIF4/23 - Peripheral Blood Morphology Evaluation

Deadline: 27.10.2023

Setup: all data

| | | |
|---|--|---|
| RoM = robust average | AV = assigned value | D _{max} = acceptable difference |
| SD = standard deviation | CVE = consensus of the experts | LL = lower limit |
| CV = coefficient of variation | U _{AV} = expanded uncertainty of the assigned value (k = 2) | UL = upper limit |
| N _{tot} = total number of the results | | N _{eva} = number of the results assessed |
| N _{out} = number of the results removed before calculation | | N _{suc} = number of successful results |
| SD, CV, U _{AV} , D _{max} we do not report for tests with binomial distribution. | | S _{rel} = relative success |

| Sample Test Group | [unit] | RoM | SD | CV [%] | N _{tot} | N _{out} | Comparability | | | | | N _{eva} | N _{suc} | S _{rel} [%] |
|--|------------------------|-------|----|-----------|------------------|------------------|---------------|-----------------|------------------|-------|-------|------------------|------------------|-------------------------|
| | | | | | | | AV | U _{AV} | D _{max} | LL | UL | | | |
| Sample A | | | | | | | | | | | | | | |
| (901) WBC - differential count: Blasts | [-] | | | | | | | | | | | 162 | 161 | 99 |
| All results | | 0,004 | | | 162 | 0 | CVE | 0,006 | | 0 | 0,028 | 162 | | |
| (902) WBC - differential count: | [-] | | | | | | | | | | | 162 | 157 | 97 |
| Promyelocytes | | | | | | | | | | | | | | |
| All results | | 0,003 | | | 162 | 0 | CVE | 0,002 | | 0 | 0,018 | 162 | | |
| (903) WBC - differential count: Neutrophil myelocytes | [-] | | | | | | | | | | | 162 | 150 | 93 |
| All results | | 0,022 | | | 162 | 0 | CVE | 0,024 | | 0,008 | 0,057 | 162 | | |
| (904) WBC - differential count: Neutrophil metamyelocytes | [-] | | | | | | | | | | | 162 | 149 | 92 |
| All results | | 0,024 | | | 162 | 0 | CVE | 0,024 | | 0,008 | 0,057 | 162 | | |
| (905) WBC - differential count: Neutrophil bars | [-] | | | | | | | | | | | 162 | 140 | 86 |
| All results | | 0,038 | | | 162 | 0 | CVE | 0,042 | | 0,017 | 0,077 | 162 | | |
| (906) WBC - differential count: Segmented neutrophil granulocytes | [-] | | | | | | | | | | | 162 | 151 | 93 |
| All results | | 0,733 | | | 162 | 0 | CVE | 0,746 | | 0,679 | 0,804 | 162 | | |
| (907) WBC - differential count: Eosinophil granulocytes - immature forms | [-] | | | | | | | | | | | 162 | 162 | 100 |
| All results | | 0 | | | 162 | 0 | CVE | 0 | | 0 | 0,018 | 162 | | |
| (908) WBC - differential count: Eosinophil segmented granulocytes | [-] | | | | | | | | | | | 162 | 160 | 99 |
| All results | | 0,01 | | | 162 | 0 | CVE | 0,01 | | 0,001 | 0,036 | 162 | | |
| (909) WBC - differential count: Basophilic granulocytes | [-] | | | | | | | | | | | 162 | 155 | 96 |
| All results | | 0,022 | | | 162 | 0 | CVE | 0,027 | | 0,008 | 0,057 | 162 | | |
| (910) WBC - differential count: Monocytes | [-] | | | | | | | | | | | 162 | 153 | 94 |
| All results | | 0,024 | | | 162 | 0 | CVE | 0,021 | | 0,005 | 0,05 | 162 | | |
| (911) WBC - differential count: Lymphocytes | [-] | | | | | | | | | | | 162 | 149 | 92 |
| All results | | 0,113 | | | 162 | 0 | CVE | 0,097 | | 0,058 | 0,144 | 162 | | |
| (912) WBC - differential count: Plasma cells | [-] | | | | | | | | | | | 162 | 162 | 100 |
| All results | | 0 | | | 162 | 0 | CVE | 0 | | 0 | 0,018 | 162 | | |
| (940) Erythroblasts | [in 100 differ. cells] | | | | | | | | | | | 162 | 162 | 100 |
| All results | | 0,675 | | | 162 | 0 | CVE | 1 | | 0 | 4 | 162 | | |
| Sample B | | | | | | | | | | | | | | |
| (901) WBC - differential count: Blasts | [-] | | | | | | | | | | | 162 | 162 | 100 |
| All results | | 0 | | | 162 | 0 | CVE | 0 | | 0 | 0,018 | 162 | | |
| (902) WBC - differential count: | [-] | | | | | | | | | | | 162 | 162 | 100 |
| Promyelocytes | | | | | | | | | | | | | | |
| All results | | 0 | | | 162 | 0 | CVE | 0 | | 0 | 0,018 | 162 | | |
| (903) WBC - differential count: Neutrophil myelocytes | [-] | | | | | | | | | | | 162 | 162 | 100 |
| All results | | 0 | | | 162 | 0 | CVE | 0 | | 0 | 0,018 | 162 | | |
| (904) WBC - differential count: Neutrophil metamyelocytes | [-] | | | | | | | | | | | 162 | 162 | 100 |
| All results | | 0 | | | 162 | 0 | CVE | 0 | | 0 | 0,018 | 162 | | |
| (905) WBC - differential count: Neutrophil bars | [-] | | | | | | | | | | | 162 | 160 | 99 |
| All results | | 0,006 | | | 162 | 0 | CVE | 0,004 | | 0 | 0,028 | 162 | | |
| (906) WBC - differential count: Segmented neutrophil granulocytes | [-] | | | | | | | | | | | 162 | 157 | 97 |
| All results | | 0,555 | | | 162 | 0 | CVE | 0,558 | | 0,488 | 0,63 | 162 | | |
| (907) WBC - differential count: Eosinophil granulocytes - immature forms | [-] | | | | | | | | | | | 162 | 162 | 100 |
| All results | | 0 | | | 162 | 0 | CVE | 0 | | 0 | 0,018 | 162 | | |
| (908) WBC - differential count: Eosinophil segmented granulocytes | [-] | | | | | | | | | | | 162 | 160 | 99 |
| All results | | 0,018 | | | 162 | 0 | CVE | 0,018 | | 0,005 | 0,05 | 162 | | |

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| Sample Test Group | [unit] | RoM | SD | CV [%] | N _{tot} | N _{out} | Comparability | | | | | N _{eva} | N _{suc} | S _{rel} [%] |
|---|------------------------|-------|----|--------|------------------|------------------|---------------|-----------------|------------------|-------|-------|------------------|------------------|----------------------|
| | | | | | | | AV | U _{AV} | D _{max} | LL | UL | | | |
| (909) WBC - differential count: Basophilic granulocytes | [-] | | | | | | | | | | | 162 | 137 | 85 |
| All results | | 0,009 | | | 162 | 0 | CVE | 0,009 | | 0,001 | 0,036 | 162 | | |
| (910) WBC - differential count: Monocytes | [-] | | | | | | | | | | | 162 | 158 | 98 |
| All results | | 0,04 | | | 162 | 0 | CVE | 0,04 | | 0,017 | 0,077 | 162 | | |
| (911) WBC - differential count: Lymphocytes | [-] | | | | | | | | | | | 162 | 155 | 96 |
| All results | | 0,371 | | | 162 | 0 | CVE | 0,373 | | 0,308 | 0,446 | 162 | | |
| (912) WBC - differential count: Plasma cells | [-] | | | | | | | | | | | 162 | 162 | 100 |
| All results | | 0 | | | 162 | 0 | CVE | 0 | | 0 | 0,018 | 162 | | |
| (940) Erythroblasts | [in 100 differ. cells] | | | | | | | | | | | 162 | 162 | 100 |
| All results | | 0 | | | 162 | 0 | CVE | 0 | | 0 | 2 | 162 | | |