

EQA round: DIF3/23 - Peripheral Blood Morphology Evaluation

Deadline: 15.9.2023

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
Sample A													
(901) WBC - differential count: Blasts	[-]										122	117	96
All results		0			122	0	CVE	0			0	0,018	122
(902) WBC - differential count:	[-]										122	122	100
Promyelocytes													
All results		0			122	0	CVE	0			0	0,018	122
(903) WBC - differential count: Neutrophil myelocytes	[-]										122	120	98
All results		0			122	0	CVE	0			0	0,018	122
(904) WBC - differential count: Neutrophil metamyelocytes	[-]										122	121	99
All results		0			122	0	CVE	0			0	0,018	122
(905) WBC - differential count: Neutrophil bars	[-]										122	90	74
All results		0,014			122	1	CVE	0,01			0,001	0,036	122
(906) WBC - differential count: Segmented neutrophil granulocytes	[-]										122	105	86
All results		0,774			122	1	CVE	0,788			0,727	0,844	122
(907) WBC - differential count: Eosinophil granulocytes - immature forms	[-]										122	122	100
All results		0			122	0	CVE	0			0	0,018	122
(908) WBC - differential count: Eosinophil segmented granulocytes	[-]										122	104	85
All results		0,007			122	0	CVE	0,008			0,001	0,036	122
(909) WBC - differential count: Basophilic granulocytes	[-]										122	122	100
All results		0,004			122	0	CVE	0,006			0	0,028	122
(910) WBC - differential count: Monocytes	[-]										122	104	85
All results		0,08			122	1	CVE	0,08			0,046	0,127	122
(911) WBC - differential count: Lymphocytes	[-]										122	110	90
All results		0,117			122	1	CVE	0,106			0,066	0,156	122
(912) WBC - differential count: Plasma cells	[-]										122	122	100
All results		0			122	0	CVE	0			0	0,018	122
(940) Erythroblasts	[in 100 differ. cells]										122	122	100
All results		0			122	0	CVE	0			0	2	122
Sample B													
(901) WBC - differential count: Blasts	[-]										122	121	99
All results		0			122	0	CVE	0			0	0,018	122
(902) WBC - differential count:	[-]										122	122	100
Promyelocytes													
All results		0			122	0	CVE	0			0	0,018	122
(903) WBC - differential count: Neutrophil myelocytes	[-]										122	122	100
All results		0			122	0	CVE	0			0	0,018	122
(904) WBC - differential count: Neutrophil metamyelocytes	[-]										122	122	100
All results		0			122	0	CVE	0			0	0,018	122
(905) WBC - differential count: Neutrophil bars	[-]										122	119	98
All results		0,006			122	0	CVE	0,006			0	0,028	122
(906) WBC - differential count: Segmented neutrophil granulocytes	[-]										122	110	90
All results		0,621			122	1	CVE	0,64			0,569	0,706	122
(907) WBC - differential count: Eosinophil granulocytes - immature forms	[-]										122	122	100
All results		0			122	0	CVE	0			0	0,018	122
(908) WBC - differential count: Eosinophil segmented granulocytes	[-]										122	117	96
All results		0,014			122	0	CVE	0,014			0,003	0,043	122

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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	[-]											122	121	99
All results		0,007			122	0	CVE 0,007		0	0,028		122		
(910) WBC - differential count: Monocytes	[-]											122	112	92
All results		0,06			122	1	CVE 0,059		0,031	0,102		122		
(911) WBC - differential count: Lymphocytes	[-]											122	111	91
All results		0,29			122	1	CVE 0,274		0,214	0,342		122		
(912) WBC - differential count: Plasma cells	[-]											122	122	100
All results		0			122	0	CVE 0		0	0,018		122		
(940) Erythroblasts	[in 100 differ. cells]											122	122	100
All results		0			122	0	CVE 0		0	2		122		