

EQA round: DIF2/24 - Peripheral Blood Morphology Evaluation

Deadline: 24.5.2024

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	[-]											150	135	90
All results		0,96			150	0	CVE 0,962		0,923	0,983		150		
(902) WBC - differential count: Promyelocytes	[-]											150	150	100
All results		0			150	0	CVE 0		0	0,018		150		
(903) WBC - differential count: Neutrophil myelocytes	[-]											150	150	100
All results		0			150	0	CVE 0		0	0,018		150		
(904) WBC - differential count: Neutrophil metamyelocytes	[-]											150	149	99
All results		0			150	0	CVE 0		0	0,018		150		
(905) WBC - differential count: Neutrophil bars	[-]											150	149	99
All results		0,001			150	0	CVE 0		0	0,018		150		
(906) WBC - differential count: Segmented neutrophil granulocytes	[-]											150	113	75
All results		0,007			150	0	CVE 0,008		0,001	0,036		150		
(907) WBC - differential count: Eosinophil granulocytes - immature forms	[-]											150	143	95
All results		0,006			150	0	CVE 0,005		0	0,028		150		
(908) WBC - differential count: Eosinophil segmented granulocytes	[-]											150	135	90
All results		0,015			150	0	CVE 0,015		0,003	0,043		150		
(909) WBC - differential count: Basophilic granulocytes	[-]											150	150	100
All results		0			150	0	CVE 0		0	0,018		150		
(910) WBC - differential count: Monocytes	[-]											150	139	93
All results		0,007			150	0	CVE 0,005		0	0,028		150		
(911) WBC - differential count: Lymphocytes	[-]											150	150	100
All results		0			150	0	CVE 0		0	0,018		150		
(912) WBC - differential count: Plasma cells	[-]											150	150	100
All results		0			150	0	CVE 0		0	0,018		150		
(940) Erythroblasts	[in 100 differ. cells]											150	148	99
All results		0,343			150	0	CVE 0		0	2		150		
Sample B														
(901) WBC - differential count: Blasts	[-]											150	102	68
All results		0,006			150	0	CVE 0,011		0,001	0,036		150		
(902) WBC - differential count: Promyelocytes	[-]											150	149	99
All results		0			150	0	CVE 0		0	0,018		150		
(903) WBC - differential count: Neutrophil myelocytes	[-]											150	141	94
All results		0,022			150	0	CVE 0,02		0,005	0,05		150		
(904) WBC - differential count: Neutrophil metamyelocytes	[-]											150	146	97
All results		0,023			150	0	CVE 0,022		0,005	0,05		150		
(905) WBC - differential count: Neutrophil bars	[-]											150	125	83
All results		0,075			150	0	CVE 0,068		0,039	0,115		150		
(906) WBC - differential count: Segmented neutrophil granulocytes	[-]											150	129	86
All results		0,717			150	0	CVE 0,726		0,658	0,786		150		
(907) WBC - differential count: Eosinophil granulocytes - immature forms	[-]											150	147	98
All results		0			150	0	CVE 0		0	0,018		150		
(908) WBC - differential count: Eosinophil segmented granulocytes	[-]											150	141	94
All results		0,015			150	0	CVE 0,016		0,003	0,043		150		

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							AV	U _{AV}	D _{max}	LL	UL			
(909) WBC - differential count: Basophilic granulocytes	[-]											150	141	94
All results		0,019			150	0	CVE	0,02		0,005	0,05	150		
(910) WBC - differential count: Monocytes	[-]											150	146	97
All results		0,042			150	0	CVE	0,04		0,017	0,077	150		
(911) WBC - differential count: Lymphocytes	[-]											150	143	95
All results		0,072			150	0	CVE	0,075		0,043	0,121	150		
(912) WBC - differential count: Plasma cells	[-]											150	150	100
All results		0			150	0	CVE	0		0	0,018	150		
(940) Erythroblasts	[in 100 differ. cells]											150	147	98
All results		2,43			150	0	CVE	2		1	5	150		