

EQA round: DIF2/23 - Peripheral Blood Morphology Evaluation

Deadline: 26.5.2023

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	[-]											158	143	91
All results		0,019			158	0	CVE	0,013		0,003	0,043	158		
(902) WBC - differential count: Promyelocytes	[-]											158	126	80
All results		0,025			158	0	CVE	0,013		0,003	0,043	158		
(903) WBC - differential count: Neutrophil myelocytes	[-]											158	121	77
All results		0,136			158	1	CVE	0,14		0,095	0,196	158		
(904) WBC - differential count: Neutrophil metamyelocytes	[-]											158	127	80
All results		0,1			158	1	CVE	0,111		0,07	0,162	158		
(905) WBC - differential count: Neutrophil bars	[-]											158	127	80
All results		0,166			158	1	CVE	0,163		0,116	0,224	158		
(906) WBC - differential count: Segmented neutrophil granulocytes	[-]											158	126	80
All results		0,398			158	1	CVE	0,415		0,346	0,487	158		
(907) WBC - differential count: Eosinophil granulocytes - immature forms	[-]											158	153	97
All results		0,006			158	1	CVE	0,005		0	0,028	158		
(908) WBC - differential count: Eosinophil segmented granulocytes	[-]											158	155	98
All results		0,022			158	1	CVE	0,018		0,005	0,05	158		
(909) WBC - differential count: Basophilic granulocytes	[-]											158	144	91
All results		0,06			158	1	CVE	0,058		0,031	0,102	158		
(910) WBC - differential count: Monocytes	[-]											158	151	96
All results		0,02			158	1	CVE	0,018		0,005	0,05	158		
(911) WBC - differential count: Lymphocytes	[-]											158	144	91
All results		0,037			158	1	CVE	0,036		0,014	0,071	158		
(912) WBC - differential count: Plasma cells	[-]											158	158	100
All results		0			158	0	CVE	0		0	0,018	158		
(940) Erythroblasts	[in 100 differ. cells]											158	158	100
All results		0,99			158	0	CVE	1		0	4	158		
Sample B														
(901) WBC - differential count: Blasts	[-]											158	143	91
All results		0,001			158	0	CVE	0		0	0,018	158		
(902) WBC - differential count: Promyelocytes	[-]											158	158	100
All results		0			158	0	CVE	0		0	0,018	158		
(903) WBC - differential count: Neutrophil myelocytes	[-]											158	158	100
All results		0,005			158	0	CVE	0,007		0	0,028	158		
(904) WBC - differential count: Neutrophil metamyelocytes	[-]											158	88	56
All results		0,005			158	0	CVE	0,008		0,001	0,036	158		
(905) WBC - differential count: Neutrophil bars	[-]											158	149	94
All results		0,022			158	1	CVE	0,022		0,005	0,05	158		
(906) WBC - differential count: Segmented neutrophil granulocytes	[-]											158	149	94
All results		0,115			158	1	CVE	0,111		0,07	0,162	158		
(907) WBC - differential count: Eosinophil granulocytes - immature forms	[-]											158	158	100
All results		0			158	0	CVE	0		0	0,018	158		
(908) WBC - differential count: Eosinophil segmented granulocytes	[-]											158	158	100
All results		0,004			158	0	CVE	0,003		0	0,028	158		

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							AV	U _{AV}	D _{max}	LL	UL			
(909) WBC - differential count: Basophilic granulocytes	[-]											158	157	99
All results		0,001			158	0	CVE	0,002		0	0,018	158		
(910) WBC - differential count: Monocytes	[-]											158	150	95
All results		0,02			158	1	CVE	0,018		0,005	0,05	158		
(911) WBC - differential count: Lymphocytes	[-]											158	131	83
All results		0,819			158	1	CVE	0,83		0,771	0,879	158		
(912) WBC - differential count: Plasma cells	[-]											158	157	99
All results		0			158	0	CVE	0		0	0,018	158		
(940) Erythroblasts	[in 100 differ. cells]											158	147	93
All results		7,24			158	0	CVE	6		3	10	158		