

EQA round: HIL1/23 - Serum Indices

Deadline: 21.4.2023

Setup: groups - manufacturer of instrument; minimal size of the groups n = 5

RoM = robust average	AV = assigned value	D _{max} = acceptable difference
SD = standard deviation	CVP = consensus of all participants	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
		S _{rel} = relative success

Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability					N _{eva}	N _{suc}	S _{rel} [%]	
							AV	U _{AV}	D _{max}	LL	UL				
(507) Bilirubin total	[μmol/L]				108							108	104	96	
Sample A		134	11	8,5	108		CVP	134	2,7	20%	107	161	108	104	96
(1) Abbott		145	10	7,2	35	0							35		
(58) Beckman Coulter (AU)		121	16	13	11	0							11		
(60) Roche		128	3,1	2,5	47	0							47		
(162) Siemens (Atellica)		144	8,4	5,9	10	0							10		
Other					5	0							5		
								1x 46, 2x 149, 1x 177, 1x 179							
Sample B		220	14	6,6	108		CVP	220	3,4	20%	176	264	108	107	99
(1) Abbott		236	20	8,3	35	0							35		
(58) Beckman Coulter (AU)		209	18	8,6	11	0							11		
(60) Roche		212	5,2	2,5	47	0							47		
(162) Siemens (Atellica)		227	11	5	10	0							10		
Other					5	0							5		
								1x 46, 2x 149, 1x 177, 1x 179							
(501) Hemolytic index (quantitative)	[μmol/L]				85							85	80	94	
Sample A		134	5,6	4,2	85		CVP	134	1,5	20%	107	161	85	85	100
(1) Abbott		135	3,7	2,7	27	0							27		
(60) Roche		134	6,6	4,9	52	0							52		
(162) Siemens (Atellica)		137	11	7,7	6	0							6		
Sample B		78,6	4,9	6,3	85		CVP	78,6	1,3	20%	62,8	94,4	85	80	94
(1) Abbott		76,4	2,6	3,4	27	0							27		
(60) Roche		79,5	5,6	7,1	52	0							52		
(162) Siemens (Atellica)		83,2	3,7	4,4	6	0							6		
(502) Icteric index (quantitative)	[μmol/L]				85							85	85	100	
Sample A		141	21	15	85		CVP	141	5,5	35%	91,6	191	85	85	100
(1) Abbott		118	11	9,1	27	0							27		
(60) Roche		153	11	7,1	52	0							52		
(162) Siemens (Atellica)		132	7,3	5,5	6	0							6		
Sample B		233	30	13	85		CVP	233	8	35%	151	315	85	85	100
(1) Abbott		202	13	6,5	27	0							27		
(60) Roche		252	16	6,3	52	0							52		
(162) Siemens (Atellica)		213	14	6,5	6	0							6		
(503) Lipemic index (quantitative)	[g/L]				85							85	83	98	
Sample A		1,92	0,18	9,6	85		CVP	1,92	0,049	23%	1,47	2,37	85	84	99
(1) Abbott		1,79	0,15	8,6	27	0							27		
(60) Roche		1,98	0,18	9,1	52	0							52		
(162) Siemens (Atellica)		1,97	0,15	7,4	6	0							6		
Sample B		3,94	0,33	8,4	85		CVP	3,94	0,088	23%	3,03	4,85	85	84	99
(1) Abbott		3,63	0,32	8,7	27	0							27		
(60) Roche		4,05	0,26	6,4	52	0							52		
(162) Siemens (Atellica)		4,26	0,18	4,2	6	0							6		