

EQA round: HIL1/25 - Serum Indices

Deadline: 18.4.2025

Setup: groups - P (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]				163							163	160	98	
Sample A		385	81	21	163		CVP	385	15	42%	223	547	163	161	99
(1) Abbott		324	95	29	55	0							55		
(58) Beckman Coulter (AU)		364	14	3,9	14	0							14		
(60) Roche		443	13	2,9	66	0							66		
(162) Siemens (Atellica)		383	12	3,2	23	0							23		
Other					5	0							5		
								1x 12, 2x 149, 1x 177, 1x 179							
Sample B		241	17	7,2	163		CVP	241	3,3	20%	192	290	163	162	99
(1) Abbott		252	11	4,3	55	0							55		
(58) Beckman Coulter (AU)		242	8,6	3,6	14	0							14		
(60) Roche		228	7	3,1	66	0							66		
(162) Siemens (Atellica)		258	11	4,1	23	0							23		
Other					5	0							5		
								1x 12, 2x 149, 1x 177, 1x 179							
(501) Hemolytic index (quantitative)	[μmol/L]				123							123	112	91	
Sample A		25,9	5,2	20	123		CVP	25,9	1,1	40%	15,5	36,3	123	112	91
(1) Abbott		22,5	1,8	8,1	42	1							42		
(60) Roche		26,3	4,2	16	67	1							67		
(162) Siemens (Atellica)		36,2	4,6	13	14	0							14		
Sample B		78,5	4,8	6,2	123		CVP	78,5	1,1	20%	62,8	94,2	123	119	97
(1) Abbott		77,5	2,6	3,4	42	1							42		
(60) Roche		78,3	6	7,6	67	0							67		
(162) Siemens (Atellica)		83	4,3	5,2	14	0							14		
(502) Icteric index (quantitative)	[μmol/L]				123							123	119	97	
Sample A		410	51	12	123		CVP	410	11	24%	311	509	123	120	98
(1) Abbott		466	19	4,1	42	0							42		
(60) Roche		388	19	4,8	67	0							67		
(162) Siemens (Atellica)		347	16	4,7	14	0							14		
Sample B		264	25	9,4	123		CVP	264	5,5	20%	211	317	123	121	98
(1) Abbott		250	16	6,4	42	0							42		
(60) Roche		279	15	5,5	67	0							67		
(162) Siemens (Atellica)		237	12	4,9	14	0							14		
(503) Lipemic index (quantitative)	[g/L]				123							123	122	99	
Sample A		4,83	0,38	7,9	123		CVP	4,83	0,085	20%	3,86	5,8	123	122	99
(1) Abbott		4,47	0,22	5	42	0							42		
(60) Roche		5,04	0,25	5	67	0							67		
(162) Siemens (Atellica)		4,87	0,39	8,1	14	0							14		
Sample B		3,78	0,36	9,5	123		CVP	3,78	0,079	20%	3,02	4,54	123	122	99
(1) Abbott		3,4	0,21	6,2	42	0							42		
(60) Roche		3,96	0,2	5,1	67	0							67		
(162) Siemens (Atellica)		4,01	0,24	5,9	14	0							14		