

EQA round: HIL2/23 - Serum Indices

Deadline: 3.11.2023

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]				117								117	115	98
Sample A		221	14	6,5	117		CVP	221	3,2	20%	176	266	117	115	98
(1) Abbott		233	11	4,9	39	0							39		
(58) Beckman Coulter (AU)		216	14	6,5	11	0							11		
(60) Roche		211	6,1	2,9	51	0							51		
(162) Siemens (Atellica)		230	10	4,4	12	0							12		
Other					4	0							4		
								1x 46, 2x 149, 1x 177							
Sample B		405	46	11	117		CVP	405	10	20%	324	486	117	116	99
(1) Abbott		351	16	4,7	39	0							39		
(58) Beckman Coulter (AU)		430	20	4,7	11	0							11		
(60) Roche		429	11	2,7	51	0							51		
(162) Siemens (Atellica)		446	20	4,5	12	0							12		
Other					4	0							4		
								1x 46, 2x 149, 1x 177							
(501) Hemolytic index (quantitative)	[μmol/L]				88								88	79	90
Sample A		78,5	5,5	7	88		CVP	78,5	1,4	20%	62,8	94,2	88	83	94
(1) Abbott		76	2,6	3,4	29	0							29		
(60) Roche		79,5	6,2	7,8	53	0							53		
(162) Siemens (Atellica)		85,8	10	12	6	0							6		
Sample B		29,9	5,6	19	88		CVP	29,9	1,5	38%	18,5	41,3	88	80	91
(1) Abbott		26,3	1,8	6,8	29	0							29		
(60) Roche		31,4	5,5	18	53	2							53		
(162) Siemens (Atellica)		38,3	5,9	15	6	0							6		
(502) Icteric index (quantitative)	[μmol/L]				88								88	87	99
Sample A		231	33	14	88		CVP	231	8,6	28%	166	296	88	87	99
(1) Abbott		198	15	7,4	29	0							29		
(60) Roche		253	13	5,1	53	0							53		
(162) Siemens (Atellica)		212	10	4,8	6	0							6		
Sample B		456	27	5,9	88		CVP	456	7	20%	364	548	88	87	99
(1) Abbott		455	21	4,7	29	0							29		
(60) Roche		463	23	5	53	0							53		
(162) Siemens (Atellica)		406	6,2	1,5	6	0							6		
(503) Lipemic index (quantitative)	[g/L]				88								88	86	98
Sample A		3,92	0,32	8,2	88		CVP	3,92	0,083	20%	3,13	4,71	88	87	99
(1) Abbott		3,64	0,33	8,9	29	0							29		
(60) Roche		4,02	0,25	6,2	53	0							53		
(162) Siemens (Atellica)		4,28	0,18	4,2	6	0							6		
Sample B		5,12	0,42	8,2	88		CVP	5,12	0,11	20%	4,09	6,15	88	87	99
(1) Abbott		4,63	0,37	8	29	0							29		
(60) Roche		5,32	0,25	4,6	53	0							53		
(162) Siemens (Atellica)		5,27	0,25	4,7	6	0							6		