

EQA round: HIL1/24 - Serum Indices

Deadline: 19.4.2024

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

RoM = robust average

SD = standard deviation

CV = coefficient of variation

N_{tot} = total number of the resultsN_{out} = number of the results removed before calculation

AV = assigned value

CVP = consensus of all participants

U_{AV} = expanded uncertainty of the assigned value (k = 2)D_{max} = acceptable difference

LL = lower limit

UL = upper limit

N_{eva} = number of the results assessedN_{suc} = number of successful resultsS_{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]				143								143	138	97
Sample A		246	19	7,8	143		CVP	246	3,9	20%	196	296	143	143	100
(1) Abbott		257	16	6,3	48	0							48		
(58) Beckman Coulter (AU)		244	13	5,2	13	0							13		
(60) Roche		231	6,9	3	60	0							60		
(162) Siemens (Atellica)		267	9,2	3,5	21	0							21		
Other					1	0							1		
							1x 177								
Sample B		159	11	7,2	143		CVP	159	2,3	20%	127	191	143	138	97
(1) Abbott		165	11	6,9	48	0							48		
(58) Beckman Coulter (AU)		145	21	14	13	0							13		
(60) Roche		154	4,7	3,1	60	0							60		
(162) Siemens (Atellica)		169	9	5,3	21	0							21		
Other					1	0							1		
							1x 177								
(501) Hemolytic index (quantitative)	[μmol/L]				108								108	103	95
Sample A		79,2	4,8	6,1	108		CVP	79,2	1,1	20%	63,3	95,1	108	103	95
(1) Abbott		77,9	2,2	2,8	35	1							35		
(60) Roche		79,2	5,7	7,2	62	0							62		
(162) Siemens (Atellica)		84,4	5,2	6,2	11	0							11		
Sample B		132	6,3	4,7	108		CVP	132	1,5	20%	105	159	108	106	98
(1) Abbott		134	5	3,8	35	1							35		
(60) Roche		132	6,9	5,2	62	0							62		
(162) Siemens (Atellica)		130	7,8	6	11	0							11		
(502) Icteric index (quantitative)	[μmol/L]				108								108	102	94
Sample A		268	27	10	108		CVP	268	6,5	20%	214	322	108	106	98
(1) Abbott		248	14	5,7	35	0							35		
(60) Roche		284	17	6	62	0							62		
(162) Siemens (Atellica)		239	13	5,3	11	0							11		
Sample B		164	21	13	108		CVP	164	5	20%	131	197	108	102	94
(1) Abbott		143	10	7,2	35	0							35		
(60) Roche		177	12	6,5	62	0							62		
(162) Siemens (Atellica)		158	9,9	6,3	11	0							11		
(503) Lipemic index (quantitative)	[g/L]				108								108	106	98
Sample A		3,76	0,32	8,5	108		CVP	3,76	0,075	20%	3	4,52	108	106	98
(1) Abbott		3,43	0,25	7,2	35	1							35		
(60) Roche		3,9	0,18	4,6	62	0							62		
(162) Siemens (Atellica)		3,93	0,29	7,5	11	0							11		
Sample B		2,07	0,13	6,2	108		CVP	2,07	0,03	20%	1,65	2,49	108	106	98
(1) Abbott		1,92	0,13	6,8	35	1							35		
(60) Roche		2,12	0,083	3,9	62	0							62		
(162) Siemens (Atellica)		2,14	0,13	6,3	11	0							11		