

EQA round: CRP4/23 - C-Reactive Protein

Deadline: 1.12.2023

Setup: groups - R (manufacturer of kit); 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								
							AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel} [%]	
(100) C-reactive protein	[mg/L]				195							195	193	99	
Sample A		48,1	3,5	7,3	195		CVP	48,1	0,62	24%	36,5	59,7	195	193	99
(1) Abbott		50	1,9	3,8	51	0							51		
(12) Beckman Coulter		53,2	0,89	1,7	6	0							6		
(58) Beckman Coulter (AU)		53,1	2,3	4,3	23	0							23		
(60) Roche		45,6	1,6	3,6	68	0							68		
(149) Siemens (Dade, BN, Dimension)		46,4	3,1	6,7	5	0							5		
(162) Siemens (Atellica)		48,7	0,77	1,6	11	0							11		
(177) Mindray		46,7	0,96	2,1	6	0							6		
(178) DiaSys		45,8	2,6	5,8	6	0							6		
(179) Siemens		48,5	0,59	1,2	5	0							5		
Other					14	0							14		
															1x 5, 4x 49, 1x 61, 1x 70, 1x 73, 2x 116, 1x 152, 2x 166, 1x 200
Sample B		26,2	2	7,6	195		CVP	26,2	0,35	24%	19,9	32,5	195	193	99
(1) Abbott		27,8	0,82	2,9	51	0							51		
(12) Beckman Coulter		25,2	0,89	3,5	6	0							6		
(58) Beckman Coulter (AU)		24,7	1	4,1	23	0							23		
(60) Roche		25	0,96	3,8	68	0							68		
(149) Siemens (Dade, BN, Dimension)		25,7	2,5	9,8	5	0							5		
(162) Siemens (Atellica)		28,9	0,56	1,9	11	0							11		
(177) Mindray		25,6	1	4,1	6	0							6		
(178) DiaSys		25,3	2	7,7	6	0							6		
(179) Siemens		28,7	0,074	0,26	5	0							5		
Other					14	0							14		
															1x 5, 4x 49, 1x 61, 1x 70, 1x 73, 2x 116, 1x 152, 2x 166, 1x 200