

EQA round: CRP2/25 - C-Reactive Protein

Deadline: 2.5.2025

Setup: groups - R (manufacturer of kit); 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 resultsN_{eva} = number of the results assessedN_{out} = number of the results removed before calculationN_{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					
(100) C-reactive protein	[mg/L]				183							183	181	99		
Sample A		25,4	1,6	6,3	183		CVP	25,4	0,29	24%	19,3	31,5	183	182	99	
(1) Abbott		26,2	0,65	2,5	48	0							48			
(58) Beckman Coulter (AU)		23,1	0,84	3,6	17	0							17			
(60) Roche		25	0,8	3,2	69	0							69			
(162) Siemens (Atellica)		28,1	0,52	1,8	12	0							12			
(177) Mindray		24,1	0,63	2,6	10	0							10			
Other					27	0							27			
								2x 0, 3x 12, 1x 46, 1x 49, 2x 70, 1x 75, 1x 116, 1x 124, 1x 140, 2x 149, 1x 152, 2x 166, 4x 178, 4x 179, 1x 200								
Sample B		82,4	5,5	6,6	183		CVP	82,4	0,99	24%	62,6	103	183	181	99	
(1) Abbott		86,1	1,8	2,1	48	0							48			
(58) Beckman Coulter (AU)		90,5	3,2	3,5	17	0							17			
(60) Roche		79	2,3	2,9	69	0							69			
(162) Siemens (Atellica)		77,2	2,3	3	12	0							12			
(177) Mindray		79	2,6	3,3	10	0							10			
Other					27	0							27			
								2x 0, 3x 12, 1x 46, 1x 49, 2x 70, 1x 75, 1x 116, 1x 124, 1x 140, 2x 149, 1x 152, 2x 166, 4x 178, 4x 179, 1x 200								