

EQA round: RFA1/23 - Risk Factors for Atherosclerosis

Deadline: 7.4.2023

Setup: groups - measurement principle; 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				
(114) Apolipoprotein AI	[g/L]				91							91	87	96	
Sample A		1,07	0,076	7	91		CVP	1,07	0,019	21%	0,845	1,3	91	89	98
(2) Immunoturbidimetry		1,07	0,075	7	83	0							83		
(3) Immunonephelometry		1,11	0,082	7,4	7	0							7		
Other					1	0							1		
							1x 0								
Sample B		2,31	0,17	7,2	91		CVP	2,31	0,043	21%	1,82	2,8	91	88	97
(2) Immunoturbidimetry		2,31	0,17	7,2	83	0							83		
(3) Immunonephelometry		2,29	0,2	8,8	7	0							7		
Other					1	0							1		
							1x 0								
(115) Apolipoprotein B	[g/L]				109							109	105	96	
Sample A		0,552	0,032	5,8	109		CVP	0,552	0,008	18%	0,452	0,652	109	106	97
(2) Immunoturbidimetry		0,552	0,033	5,9	102	0							102		
(3) Immunonephelometry		0,555	0,007	1,3	6	0							6		
Other					1	0							1		
							1x 0								
Sample B		1,27	0,052	4,1	109		CVP	1,27	0,012	18%	1,04	1,5	109	106	97
(2) Immunoturbidimetry		1,27	0,051	4	102	0							102		
(3) Immunonephelometry		1,33	0,096	7,3	6	0							6		
Other					1	0							1		
							1x 0								
(111) Cholesterol	[mmol/L]				317							317	307	97	
Sample A												317	309	97	
(0) Not specified		3,06	0,097	3,2	317	0	CVP	3,06	0,013	8%	2,81	3,31	317		
Sample B												317	309	97	
(0) Not specified		6,99	0,21	3,1	317	0	CVP	6,99	0,029	8%	6,43	7,55	317		
(113) Cholesterol HDL	[mmol/L]				319							319	313	98	
Sample A		0,986	0,044	4,5	319		CVP	0,986	0,006	15%	0,838	1,14	319	313	98
(2) Direct determination		0,987	0,044	4,5	317	0							317		
Other					2	0							2		
							2x 1								
Sample B		2,07	0,087	4,2	319		CVP	2,07	0,012	15%	1,75	2,39	319	317	99
(2) Direct determination		2,07	0,087	4,2	317	0							317		
Other					2	0							2		
							2x 1								
(118) Cholesterol LDL (direct determination)	[mmol/L]				251							251	249	99	
Sample A												251	249	99	
(0) Not specified		1,78	0,13	7,3	251	0	CVP	1,78	0,02	20%	1,42	2,14	251		
Sample B												251	249	99	
(0) Not specified		4,16	0,39	9,3	251	0	CVP	4,16	0,06	20%	3,32	5	251		
(116) Cholesterol LDL (calculation)	[mmol/L]				125							125	122	98	
Sample A												125	122	98	
(0) Not specified		1,66	0,1	6,3	125	0	CVP	1,66	0,023	15%	1,41	1,91	125		
Sample B												125	124	99	
(0) Not specified		3,98	0,23	5,8	125	0	CVP	3,98	0,05	15%	3,38	4,58	125		
(117) Lipoprotein (a) [g/L]	[g/L]				36							36	32	89	
Sample A		0,086	0,016	18	36		CVP	0,086	0,006	36%	0,055	0,117	36	33	92
(2) Immunoturbidimetry		0,087	0,015	17	34	0							34		
Other					2	0							2		
							2x 3								
Sample B		0,276	0,027	9,9	36		CVP	0,276	0,011	25%	0,207	0,345	36	34	94
(2) Immunoturbidimetry		0,277	0,027	9,6	34	0							34		
Other					2	0							2		
							2x 3								
(119) Lipoprotein (a) [nmol/L]	[nmol/L]				36							36	31	86	
Sample A												36	31	86	
(2) Immunoturbidimetry		11,8	1,9	16	36	0	CVP	11,8	0,78	32%	8,02	15,6	36		
Sample B												36	33	92	
(2) Immunoturbidimetry		53,3	2,8	5,3	36	0	CVP	53,3	1,1	20%	42,6	64	36		

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							AV	U _{AV}	D _{max}	LL	UL				
(112) Triacylglycerols	[mmol/L]				317							317	314	99	
Sample A		0,911	0,044	4,9	317		CVP	0,911	0,006	15%	0,774	1,05	317	314	99
(1) Photometric enzyme (GPO-PAP)		0,912	0,045	4,9	303	0							303		
(2) Enzymatic UV method		0,897	0,032	3,6	14	0							14		
Sample B		2,09	0,067	3,2	317		CVP	2,09	0,009	15%	1,77	2,41	317	316	100
(1) Photometric enzyme (GPO-PAP)		2,09	0,068	3,2	303	0							303		
(2) Enzymatic UV method		2,06	0,05	2,4	14	0							14		