

EQA round: RFA1/25 - Risk Factors for Atherosclerosis

Deadline: 4.4.2025

Setup: groups - M (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]				90							90	87	97	
Sample A		1,42	0,096	6,7	90		CVP	1,42	0,025	17%	1,17	1,67	90	88	98
(2) Immunoturbidimetry		1,41	0,091	6,5	83	0							83		
(3) Immunonephelometry		1,51	0,074	4,9	7	0							7		
Sample B		2,18	0,15	7	90		CVP	2,18	0,039	17%	1,8	2,56	90	88	98
(2) Immunoturbidimetry		2,17	0,15	7,1	83	0							83		
(3) Immunonephelometry		2,27	0,067	2,9	7	0							7		
(115) Apolipoprotein B	[g/L]				111							111	107	96	
Sample A		0,863	0,047	5,5	111		CVP	0,863	0,011	14%	0,742	0,984	111	109	98
(2) Immunoturbidimetry		0,863	0,046	5,4	105	0							105		
(3) Immunonephelometry		0,875	0,082	9,3	6	0							6		
Sample B		1,27	0,069	5,5	111		CVP	1,27	0,016	14%	1,09	1,45	111	107	96
(2) Immunoturbidimetry		1,27	0,069	5,5	105	0							105		
(3) Immunonephelometry		1,22	0,015	1,2	6	0							6		
(111) Cholesterol	[mmol/L]				320							320	311	97	
Sample A												320	314	98	
(0) Not specified		4,62	0,13	2,8	320	0	CVP	4,62	0,018	8%	4,25	4,99	320		
Sample B												320	314	98	
(0) Not specified		6,94	0,19	2,7	320	0	CVP	6,94	0,025	8%	6,38	7,5	320		
(113) Cholesterol HDL	[mmol/L]				323							323	317	98	
Sample A		1,29	0,057	4,4	323		CVP	1,29	0,008	15%	1,09	1,49	323	319	99
(2) Direct determination		1,29	0,057	4,4	319	1							319		
Other					4	0							4		
							3x 1, 1x 99								
Sample B		1,98	0,1	5,2	323		CVP	1,98	0,014	15%	1,68	2,28	323	318	98
(2) Direct determination		1,98	0,1	5,2	319	0							319		
Other					4	0							4		
							3x 1, 1x 99								
(118) Cholesterol LDL (direct determination)	[mmol/L]				275							275	270	98	
Sample A												275	273	99	
(0) Not specified		2,81	0,23	8,3	275	0	CVP	2,81	0,035	20%	2,24	3,38	275		
Sample B												275	270	98	
(0) Not specified		4,15	0,4	9,7	275	0	CVP	4,15	0,059	20%	3,32	4,98	275		
(116) Cholesterol LDL (calculation)	[mmol/L]				97							97	96	99	
Sample A												97	96	99	
(0) Not specified		2,74	0,13	4,7	97	0	CVP	2,74	0,032	15%	2,32	3,16	97		
Sample B												97	97	100	
(0) Not specified		4,14	0,19	4,7	97	0	CVP	4,14	0,048	15%	3,51	4,77	97		
(117) Lipoprotein (a) [g/L]	[g/L]				37							37	35	95	
Sample A												37	36	97	
(2) Immunoturbidimetry		0,232	0,012	5,2	37	0	CVP	0,232	0,005	25%	0,174	0,29	37		
Sample B												37	36	97	
(2) Immunoturbidimetry		0,324	0,016	5	37	0	CVP	0,324	0,007	25%	0,243	0,405	37		
(119) Lipoprotein (a) [nmol/L]	[nmol/L]				41							41	41	100	
Sample A												41	41	100	
(2) Immunoturbidimetry		39,1	3,1	8	41	0	CVP	39,1	1,2	20%	31,2	47	41		
Sample B												41	41	100	
(2) Immunoturbidimetry		56,1	3,7	6,6	41	0	CVP	56,1	1,4	20%	44,8	67,4	41		
(112) Triacylglycerols	[mmol/L]				321							321	315	98	
Sample A		1,38	0,055	4	321		CVP	1,38	0,008	15%	1,17	1,59	321	316	98
(1) Photometric enzyme (GPO-PAP)		1,38	0,056	4,1	305	0							305		
(2) Enzymatic UV method		1,39	0,045	3,2	15	0							15		
Other					1	0							1		
							1x 99								
Sample B		1,97	0,063	3,2	321		CVP	1,97	0,009	15%	1,67	2,27	321	316	98
(1) Photometric enzyme (GPO-PAP)		1,97	0,064	3,2	305	0							305		
(2) Enzymatic UV method		1,97	0,052	2,6	15	0							15		
Other					1	0							1		
							1x 99								