

## EQA round: RFA1/24 - Risk Factors for Atherosclerosis

Deadline: 5.4.2024

Setup: groups - M (measurement principle); minimal size of the groups n = 5

RoM = robust average	AV = assigned value	D <sub>max</sub> = acceptable difference
SD = standard deviation	CVP = consensus of all participants	LL = lower limit
CV = coefficient of variation	U <sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)	UL = upper limit
N <sub>tot</sub> = total number of the results		N <sub>eva</sub> = number of the results assessed
N <sub>out</sub> = number of the results removed before calculation		N <sub>suc</sub> = number of successful results
		S <sub>rel</sub> = relative success

Test Sample Group	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability					N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]	
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL				
<b>(114) Apolipoprotein AI</b>	[g/L]				87							87	85	98	
<b>Sample A</b>		1,19	0,081	6,8	87		CVP	1,19	0,021	17%	0,987	1,4	87	86	99
(2) Immunoturbidimetry		1,19	0,08	6,8	80	0							80		
(3) Immunonephelometry		1,24	0,059	4,8	7	0							7		
<b>Sample B</b>		1,6	0,11	6,7	87		CVP	1,6	0,028	17%	1,32	1,88	87	85	98
(2) Immunoturbidimetry		1,59	0,1	6,5	80	0							80		
(3) Immunonephelometry		1,67	0,059	3,6	7	0							7		
<b>(115) Apolipoprotein B</b>	[g/L]				109							109	102	94	
<b>Sample A</b>		0,703	0,036	5,1	109		CVP	0,703	0,008	14%	0,604	0,802	109	105	96
(2) Immunoturbidimetry		0,704	0,037	5,2	103	0							103		
(3) Immunonephelometry		0,691	0,014	2	6	0							6		
<b>Sample B</b>		0,997	0,049	4,9	109		CVP	0,997	0,012	14%	0,857	1,14	109	104	95
(2) Immunoturbidimetry		0,997	0,049	5	103	0							103		
(3) Immunonephelometry		1,01	0,059	5,9	6	0							6		
<b>(111) Cholesterol</b>	[mmol/L]				319							319	310	97	
<b>Sample A</b>												319	314	98	
(0) Not specified		3,79	0,11	2,8	319	0	CVP	3,79	0,015	8%	3,48	4,1	319		
<b>Sample B</b>												319	313	98	
(0) Not specified		5,25	0,16	3,1	319	0	CVP	5,25	0,022	8%	4,83	5,67	319		
<b>(113) Cholesterol HDL</b>	[mmol/L]				322							322	320	99	
<b>Sample A</b>		1,11	0,048	4,3	322		CVP	1,11	0,007	15%	0,943	1,28	322	321	100
(2) Direct determination		1,11	0,048	4,3	319	0							319		
Other					3	0							3		
							3x 1								
<b>Sample B</b>		1,42	0,067	4,7	322		CVP	1,42	0,009	15%	1,2	1,64	322	320	99
(2) Direct determination		1,42	0,067	4,7	319	0							319		
Other					3	0							3		
							3x 1								
<b>(118) Cholesterol LDL (direct determination)</b>	[mmol/L]				262							262	259	99	
<b>Sample A</b>												262	260	99	
(0) Not specified		2,33	0,14	6,2	262	0	CVP	2,33	0,022	20%	1,86	2,8	262		
<b>Sample B</b>												262	261	100	
(0) Not specified		3,24	0,26	8,1	262	0	CVP	3,24	0,04	20%	2,59	3,89	262		
<b>(116) Cholesterol LDL (calculation)</b>	[mmol/L]				113							113	112	99	
<b>Sample A</b>												113	113	100	
(0) Not specified		2,27	0,12	5,3	113	0	CVP	2,27	0,028	15%	1,92	2,62	113		
<b>Sample B</b>												113	112	99	
(0) Not specified		3,13	0,17	5,5	113	0	CVP	3,13	0,04	15%	2,66	3,6	113		
<b>(117) Lipoprotein (a) [g/L]</b>	[g/L]				38							38	36	95	
<b>Sample A</b>		0,157	0,012	7,7	38		CVP	0,157	0,005	25%	0,117	0,197	38	36	95
(2) Immunoturbidimetry		0,156	0,011	7,3	36	0							36		
Other					2	0							2		
							2x 3								
<b>Sample B</b>		0,279	0,02	7,2	38		CVP	0,279	0,008	25%	0,209	0,349	38	37	97
(2) Immunoturbidimetry		0,277	0,019	7	36	0							36		
Other					2	0							2		
							2x 3								
<b>(119) Lipoprotein (a) [nmol/L]</b>	[nmol/L]				38							38	36	95	
<b>Sample A</b>												38	36	95	
(2) Immunoturbidimetry		24,8	2,1	8,7	38	0	CVP	24,8	0,85	20%	19,8	29,8	38		
<b>Sample B</b>												38	36	95	
(2) Immunoturbidimetry		49,6	3,1	6,3	38	0	CVP	49,6	1,2	20%	39,6	59,6	38		
<b>(112) Triacylglycerols</b>	[mmol/L]				318							318	315	99	
<b>Sample A</b>		0,919	0,046	5	318		CVP	0,919	0,006	15%	0,781	1,06	318	315	99
(1) Photometric enzyme (GPO-PAP)		0,919	0,046	5	301	0							301		
(2) Enzymatic UV method		0,905	0,043	4,7	16	0							16		
Other					1	0							1		
							1x 99								
<b>Sample B</b>		1,62	0,057	3,5	318		CVP	1,62	0,008	15%	1,37	1,87	318	318	100
(1) Photometric enzyme (GPO-PAP)		1,62	0,057	3,5	301	0							301		
(2) Enzymatic UV method		1,61	0,044	2,8	16	0							16		
Other					1	0							1		
							1x 99								