

## EQA round: RFA1/25 - Risk Factors for Atherosclerosis

Deadline: 4.4.2025

Setup: groups - R (manufacturer of kit); 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]				90							90	87	97		
<b>Sample A</b>		1,42	0,096	6,7	90		CVP	1,42	0,025	17%	1,17	1,67	90	88	98	
(1) Abbott		1,47	0,035	2,4	25	0							25			
(58) Beckman Coulter (AU)		1,37	0,089	6,5	8	0							8			
(60) Roche		1,37	0,064	4,7	29	0							29			
(149) Siemens (Dade, BN, Dimension)		1,48	0,03	2	5	0							5			
(162) Siemens (Atellica)		1,33	0,067	5	9	0							9			
Other					14	0							14			
								1x 12, 3x 46, 2x 91, 2x 177, 2x 178, 3x 179, 1x 999								
<b>Sample B</b>		2,18	0,15	7	90		CVP	2,18	0,039	17%	1,8	2,56	90	88	98	
(1) Abbott		2,29	0,088	3,8	25	0							25			
(58) Beckman Coulter (AU)		2,1	0,22	10	8	0							8			
(60) Roche		2,12	0,096	4,5	29	0							29			
(149) Siemens (Dade, BN, Dimension)		2,27	0,059	2,6	5	0							5			
(162) Siemens (Atellica)		2	0,082	4,1	9	0							9			
Other					14	0							14			
								1x 12, 3x 46, 2x 91, 2x 177, 2x 178, 3x 179, 1x 999								
<b>(115) Apolipoprotein B</b>	[g/L]				111							111	107	96		
<b>Sample A</b>		0,863	0,047	5,5	111		CVP	0,863	0,011	14%	0,742	0,984	111	109	98	
(1) Abbott		0,876	0,037	4,2	30	0							30			
(58) Beckman Coulter (AU)		0,84	0,074	8,8	9	0							9			
(60) Roche		0,873	0,038	4,4	41	0							41			
(162) Siemens (Atellica)		0,828	0,061	7,3	11	0							11			
Other					20	0							20			
								1x 12, 4x 46, 3x 91, 4x 149, 2x 177, 2x 178, 3x 179, 1x 999								
<b>Sample B</b>		1,27	0,069	5,5	111		CVP	1,27	0,016	14%	1,09	1,45	111	107	96	
(1) Abbott		1,29	0,048	3,7	30	0							30			
(58) Beckman Coulter (AU)		1,27	0,13	10	9	0							9			
(60) Roche		1,29	0,044	3,4	41	0							41			
(162) Siemens (Atellica)		1,19	0,061	5,1	11	0							11			
Other					20	0							20			
								1x 12, 4x 46, 3x 91, 4x 149, 2x 177, 2x 178, 3x 179, 1x 999								
<b>(111) Cholesterol</b>	[mmol/L]				320							320	311	97		
<b>Sample A</b>		4,62	0,13	2,8	320		CVP	4,62	0,018	8%	4,25	4,99	320	314	98	
(1) Abbott		4,65	0,09	1,9	84	0							84			
(46) Erba Lachema		4,64	0,15	3,2	6	0							6			
(58) Beckman Coulter (AU)		4,77	0,13	2,8	44	0							44			
(60) Roche		4,59	0,11	2,4	127	0							127			
(162) Siemens (Atellica)		4,54	0,083	1,8	31	0							31			
(177) Mindray		4,5	0,19	4,3	8	0							8			
(179) Siemens		4,53	0,19	4,1	11	0							11			
Other					9	0							9			
								3x 12, 1x 149, 1x 166, 4x 178								
<b>Sample B</b>		6,94	0,19	2,7	320		CVP	6,94	0,025	8%	6,38	7,5	320	314	98	
(1) Abbott		6,97	0,13	1,9	84	0							84			
(46) Erba Lachema		6,99	0,13	1,9	6	0							6			
(58) Beckman Coulter (AU)		7,19	0,19	2,6	44	0							44			
(60) Roche		6,9	0,13	1,9	127	0							127			
(162) Siemens (Atellica)		6,78	0,12	1,8	31	0							31			
(177) Mindray		6,79	0,36	5,4	8	0							8			
(179) Siemens		6,7	0,22	3,2	11	0							11			
Other					9	0							9			
								3x 12, 1x 149, 1x 166, 4x 178								
<b>(113) Cholesterol HDL</b>	[mmol/L]				323							323	317	98		
<b>Sample A</b>		1,29	0,057	4,4	323		CVP	1,29	0,008	15%	1,09	1,49	323	319	99	
(1) Abbott		1,31	0,045	3,4	83	1							83			
(46) Erba Lachema		1,29	0,022	1,7	7	0							7			
(58) Beckman Coulter (AU)		1,29	0,04	3,1	41	0							41			
(60) Roche		1,25	0,037	3	124	0							124			
(162) Siemens (Atellica)		1,37	0,033	2,4	33	0							33			
(177) Mindray		1,3	0,043	3,3	10	0							10			
(179) Siemens		1,34	0,072	5,4	10	0							10			
Other					15	0							15			
								4x 12, 1x 32, 2x 70, 1x 149, 2x 158, 1x 166, 4x 178								



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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				
(46) Erba Lachema		2	0,059	3	7	0							7		
(58) Beckman Coulter (AU)		1,94	0,059	3	42	0							42		
(60) Roche		2	0,044	2,2	125	0							125		
(162) Siemens (Atellica)		2,03	0,055	2,7	32	0							32		
(177) Mindray		1,94	0,087	4,5	10	0							10		
(179) Siemens		1,99	0,099	5	11	0							11		
Other					9	0							9		

3x 12, 1x 149, 1x 166, 4x 178