

EQA round: AT1/26 - Autoantibodies in Thyroid Diseases

Deadline: 10.4.2026

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	CVPG = consensus of the participants' groups	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			
Set 1														
(576) anti-microsomes (TPO)		[kU/L]			203							188	178	95
Sample A1		497	170	33	203							188	187	99
(1) Abbott		696	40	5,8	59	0	CVPG	696	13	50%	348	1050	59	
(12) Beckman Coulter		424	63	15	24	0	CVPG	424	32	50%	212	636	24	
(60) Roche		376	19	5,2	76	0	CVPG	376	5,5	50%	188	564	76	
(162) Siemens (Atellica)		444	71	16	29	0	CVPG	444	32	50%	222	666	29	
Other					15	1							0	
								1x 15, 3x 25, 4x 29, 1x 73, 1x 148, 1x 166, 4x 179						
Sample B1		6,53	6,1	94	203							188	178	95
(1) Abbott		1,82	0,24	13	59	0	CVPG	1,82	0,077	50%	0,91	2,73	59	
(12) Beckman Coulter		1,27	0,19	15	24	1	CVPG	1,27	0,097	50%	0,635	1,91	24	
(60) Roche		12,5	4,1	33	76	1	CVPG	12,5	1,2	50%	6,25	18,8	76	
(162) Siemens (Atellica)		6,6	0,028	0,43	29	0	CVPG	6,6	0,013	50%	3,3	9,9	29	
Other					15	0							0	
								1x 15, 3x 25, 4x 29, 1x 73, 1x 148, 1x 166, 4x 179						
(575) anti-thyroglobulin		[kU/L]			198							183	170	93
Sample A1		1280	1200	90	198							183	183	100
(1) Abbott		654	56	8,6	58	0	CVPG	654	18	50%	327	981	58	
(12) Beckman Coulter		260	31	12	21	0	CVPG	260	17	50%	130	390	21	
(60) Roche		2510	240	9,4	76	0	CVPG	2510	67	50%	1250	3770	76	
(162) Siemens (Atellica)		292	16	5,3	28	0	CVPG	292	7,2	50%	146	438	28	
Other					15	1							0	
								1x 15, 2x 25, 4x 29, 1x 36, 1x 73, 1x 148, 1x 166, 4x 179						
Sample B1		9,12	9,8	110	198							183	170	93
(1) Abbott		2,51	0,35	14	58	0	CVPG	2,51	0,11	50%	1,25	3,77	58	
(12) Beckman Coulter		0,686	0,55	80	21	1	CVPG	0,686	0,3	50%	0,343	1,03	21	
(60) Roche		18,9	2,4	13	76	1	CVPG	18,9	0,68	50%	9,45	28,4	76	
(162) Siemens (Atellica)		1,3	0,002	0,18	28	0	CVPG	1,3	0,001	50%	0,65	1,95	28	
Other					15	0							0	
								1x 15, 2x 25, 4x 29, 1x 36, 1x 73, 1x 148, 1x 166, 4x 179						
Set 2														
(590) anti-TSH receptor		[U/L]			112							104	101	97
Sample A2		0,819	0,14	17	112							104	102	98
(1) Abbott		0,954	0,21	22	30	0	CVPG	0,954	0,095	100%	0	1,91	30	
(29) Siemens (Immulin)		0,1	0	0	9	0	CVPG	0,1		100%	0	0,2	9	
(60) Roche		0,801	0,002	0,27	65	0	CVPG	0,801	0,001	100%	0	1,61	65	
Other					8	0							0	
								1x 0, 1x 24, 1x 36, 4x 73, 1x 87						
Sample B2		4,04	1,4	34	112							104	102	98
(1) Abbott		5,84	0,35	6	30	0	CVPG	5,84	0,16	33%	3,91	7,77	30	
(29) Siemens (Immulin)		3,48	0,12	3,4	9	0	CVPG	3,48	0,15	33%	2,33	4,63	9	
(60) Roche		3,47	0,68	20	65	0	CVPG	3,47	0,21	33%	2,32	4,62	65	
Other					8	0							0	
								1x 0, 1x 24, 1x 36, 4x 73, 1x 87						