Summary statistics - quantitative results

EQA round: AT2/26 - Autoantibodies in Thyroid Diseases

Deadline: 23.10.2026

Setup: groups - R (manufacturer of kit); minimal size of the groups n = 5

RoM = robust average
SD = standard deviation
CV = coefficient of variation
N_{tot} = total number of the results
N_{out} = number of the results removed before calculation
AV = assigned value
CVPG = consensus of the participants' groups
U_{AV} = expanded uncertainty of the assigned value (k = 2)
D_{max} = acceptable difference
LL = lower limit
UL = upper limit
N_{eva} = number of the results assessed
N_{suc} = number of successful results
S_{rel} = relative success

Test / Sample / Group	[unit]	RoM	SD	CV [%]	N_{tot}	N_{out}	Comparability	AV	U_{AV}	D_{max}	LL	UL	N_{eva}	N_{suc}	S_{rel} [%]
Set 1															
(576) **anti-microsomes (TPO)**	[kU/L]				200								186	162	87
Sample A1		708	280	40	200								186	175	94
(1) Abbott		1000	0,33	0,03	57	0	CVPG	1000	0,11	50%	500	1500	57		
(12) Beckman Coulter		755	110	15	24	0	CVPG	755	56	50%	377	1140	24		
(60) Roche		516	33	6,5	74	0	CVPG	516	9,5	50%	258	774	74		
(162) Siemens (Atellica)		545	260	48	31	0	CVPG	545	120	50%	272	818	31		
Other					14	1							0		
							1x 15, 3x 25, 3x 29, 1x 73, 1x 166, 1x 177, 4x 179								
Sample B1		5,1	3,5	69	200								186	171	92
(1) Abbott		2,31	0,39	17	57	0	CVPG	2,31	0,13	50%	1,15	3,47	57		
(12) Beckman Coulter		1,35	0,14	10	24	0	CVPG	1,35	0,07	50%	0,675	2,03	24		
(60) Roche		8	0,001	0,01	74	0	CVPG	8	0	50%	4	12	74		
(162) Siemens (Atellica)		6,59	0,1	1,6	31	0	CVPG	6,59	0,046	50%	3,29	9,89	31		
Other					14	0							0		
							1x 15, 3x 25, 3x 29, 1x 73, 1x 166, 1x 177, 4x 179								
(575) **anti-thyreoglobulin**	[kU/L]				195								181	147	81
Sample A1		2420	1600	66	195								181	166	92
(1) Abbott		1000	4,2	0,42	55	0	CVPG	1000	1,4	50%	500	1500	55		
(12) Beckman Coulter		2060	420	20	22	0	CVPG	2060	220	50%	1030	3090	22		
(60) Roche		4000	0	0	74	0	CVPG	4000		50%	2000	6000	74		
(162) Siemens (Atellica)		1000	0	0	30	0	CVPG	1000		50%	500	1500	30		
Other					14	1							0		
							1x 15, 2x 25, 3x 29, 1x 36, 1x 73, 1x 166, 1x 177, 4x 179								
Sample B1		8,59	8,9	100	195								181	158	87
(1) Abbott		3,05	0,78	26	55	0	CVPG	3,05	0,26	50%	1,52	4,58	55		
(12) Beckman Coulter		0,747	0,58	78	22	0	CVPG	0,747	0,3	50%	0,373	1,13	22		
(60) Roche		17,1	2,5	15	74	0	CVPG	17,1	0,72	50%	8,55	25,7	74		
(162) Siemens (Atellica)		1,3	0,003	0,22	30	0	CVPG	1,3	0,001	50%	0,65	1,95	30		
Other					14	0							0		
							1x 15, 2x 25, 3x 29, 1x 36, 1x 73, 1x 166, 1x 177, 4x 179								
Set 2															
(590) **anti-TSH receptor**	[U/L]				111								102	97	95
Sample A2		0,819	0,14	17	111								102	97	95
(1) Abbott		1,04	0,3	29	29	0	CVPG	1,04	0,14	33%	0,696	1,39	29		
(29) Siemens (Immulite)		0,1	0	0	9	0	CVPG	0,1		100%	0	0,2	9		
(60) Roche		0,8	0,001	0,1	64	0	CVPG	0,8	0	100%	0	1,6	64		
Other					9	0							0		
							1x 0, 1x 24, 4x 73, 1x 87, 2x 164								
Sample B2		5	1,2	23	111								102	102	100
(1) Abbott		6,48	0,37	5,7	29	0	CVPG	6,48	0,17	33%	4,34	8,62	29		
(29) Siemens (Immulite)		4,57	0,3	6,7	9	0	CVPG	4,57	0,38	33%	3,06	6,08	9		
(60) Roche		4,5	0,56	12	64	0	CVPG	4,5	0,17	33%	3,01	5,99	64		
Other					9	0							0		
							1x 0, 1x 24, 4x 73, 1x 87, 2x 164								