

EQA round: AT1/24 - Autoantibodies in Thyroid Diseases

Deadline: 12.4.2024

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]			201							194	177	91
Sample A1		10,9	5,5	50	201							194	189	97
(1) Abbott		9,04	0,68	7,5	66	0	CVPG	9,04	0,2	50%	4,52	13,6		66
(12) Beckman Coulter		4,42	0,31	7	21	0	CVPG	4,42	0,16	50%	2,21	6,63		21
(29) Siemens (Immulin)		60,2	14	24	11	0	CVPG	60,2	10	50%	30,1	90,3		11
(60) Roche		10,5	2,5	24	67	0	CVPG	10,5	0,74	50%	5,25	15,8		67
(162) Siemens (Atellica)		33,3	4,7	14	17	0	CVPG	33,3	2,8	50%	16,6	50		17
(179) Siemens		30	2,9	9,7	12	0	CVPG	30	2,1	50%	15	45		12
Other					7	0								0
														1x 15, 3x 25, 1x 52, 1x 135, 1x 166
Sample B1		701	320	46	201							194	182	94
(1) Abbott		807	67	8,3	66	0	CVPG	807	20	50%	403	1220		66
(12) Beckman Coulter		542	66	12	21	0	CVPG	542	36	50%	271	813		21
(29) Siemens (Immulin)		913	100	11	11	0	CVPG	913	74	50%	456	1370		11
(60) Roche		396	57	14	67	0	CVPG	396	17	50%	198	594		67
(162) Siemens (Atellica)		2040	1200	60	17	0	CVPG	2040	730	50%	1020	3060		17
(179) Siemens		1300	0	0	12	0	CVPG	1300		50%	650	1950		12
Other					7	1								0
														1x 15, 3x 25, 1x 52, 1x 135, 1x 166
(575) anti-thyreoglobulin		[kU/L]			195							188	161	86
Sample A1		6,91	6	87	195							188	166	88
(1) Abbott		4,2	0,43	10	64	0	CVPG	4,2	0,13	50%	2,1	6,3		64
(12) Beckman Coulter		0,583	0,43	73	20	0	CVPG	0,583	0,23	50%	0,291	0,875		20
(29) Siemens (Immulin)		20	0	0	9	0	CVPG	20		50%	10	30		9
(60) Roche		12,6	1,9	15	66	0	CVPG	12,6	0,56	50%	6,3	18,9		66
(162) Siemens (Atellica)		1,3	0,096	7,4	18	0	CVPG	1,3	0,055	50%	0,65	1,95		18
(179) Siemens		1,37	0,42	31	11	0	CVPG	1,37	0,31	50%	0,685	2,06		11
Other					7	0								0
														1x 15, 2x 25, 1x 36, 1x 52, 1x 135, 1x 166
Sample B1		2140	1500	71	195							188	183	97
(1) Abbott		1150	280	25	64	0	CVPG	1150	87	50%	575	1730		64
(12) Beckman Coulter		1780	250	14	20	0	CVPG	1780	140	50%	890	2670		20
(29) Siemens (Immulin)		1600	230	14	9	0	CVPG	1600	280	50%	800	2400		9
(60) Roche		4000	0	0	66	2	CVPG	4000		50%	2000	6000		66
(162) Siemens (Atellica)		1000	0	0	18	0	CVPG	1000		50%	500	1500		18
(179) Siemens		1000	0	0	11	0	CVPG	1000		50%	500	1500		11
Other					7	1								0
														1x 15, 2x 25, 1x 36, 1x 52, 1x 135, 1x 166
Set 2														
(590) anti-TSH receptor		[U/L]			103							98	95	97
Sample A2		0,79	0,048	6,1	103							98	95	97
(1) Abbott		0,932	0,25	27	19	0	CVPG	0,932	0,14	50%	0,466	1,4		19
(29) Siemens (Immulin)		0,1	0	0	10	0	CVPG	0,1	0	50%	0,05	0,15		10
(60) Roche		0,8	0	0	69	0	CVPG	0,8	0	50%	0,4	1,2		69
Other					5	0								0
														1x 24, 1x 36, 2x 73, 1x 87
Sample B2		4,22	0,78	19	103							98	97	99
(1) Abbott		6,61	0,5	7,5	19	0	CVPG	6,61	0,28	33%	4,42	8,8		19
(29) Siemens (Immulin)		4,35	0,26	5,9	10	0	CVPG	4,35	0,2	33%	2,91	5,79		10
(60) Roche		3,92	0,4	10	69	0	CVPG	3,92	0,12	33%	2,62	5,22		69
Other					5	0								0
														1x 24, 1x 36, 2x 73, 1x 87