

EQA round: AT2/23 - Autoantibodies in Thyroid Diseases

Deadline: 30.10.2023

Setup: groups - 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	CVP = consensus of all participants	UL = upper limit
N _{tot} = total number of the results	U _{AV} = expanded uncertainty of the assigned value (k = 2)	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]											186	169	91
Sample A1		674	230	34	195							186	176	95
(1) Abbott		735	59	8	66	1	CVPG 735	18	50%	367	1110		66	
(12) Beckman Coulter		498	48	9,6	19	0	CVPG 498	27	50%	249	747		19	
(29) Siemens (Immulin)		894	160	18	9	1	CVPG 894	120	50%	447	1350		9	
(60) Roche		486	77	16	64	1	CVPG 486	24	50%	243	729		64	
(162) Siemens (Atellica)		1790	950	53	16	1	CVPG 1790	600	50%	895	2690		16	
(179) Siemens		1300	0	0	12	0	CVPG 1300		50%	650	1950		12	
Other					9	0							0	
1x 15, 3x 25, 1x 52, 1x 135, 1x 148, 1x 166, 1x 999														

Sample B1		5,65	5,3	94	195							186	175	94
(1) Abbott		1,62	0,27	17	66	1	CVPG 1,62	0,081	50%	0,81	2,43		66	
(12) Beckman Coulter		0,686	0,087	13	19	0	CVPG 0,686	0,049	50%	0,343	1,03		19	
(29) Siemens (Immulin)		10	0	0	9	1	CVPG 10		50%	5	15		9	
(60) Roche		7,76	2,2	29	64	1	CVPG 7,76	0,69	50%	3,88	11,7		64	
(162) Siemens (Atellica)		28	0	0	16	1	CVPG 28		50%	14	42		16	
(179) Siemens		28	0	0	12	0	CVPG 28		50%	14	42		12	
Other					9	0							0	
1x 15, 3x 25, 1x 52, 1x 135, 1x 148, 1x 166, 1x 999														

(575) anti-thyreoglobulin	[kU/L]											179	151	84
Sample A1		2090	1500	74	188							179	164	92
(1) Abbott		1010	21	2,1	64	0	CVPG 1010	6,5	50%	505	1520		64	
(12) Beckman Coulter		1400	160	12	18	0	CVPG 1400	95	50%	700	2100		18	
(29) Siemens (Immulin)		1270	200	16	7	1	CVPG 1270	280	50%	635	1910		7	
(60) Roche		4000	0	0	63	2	CVPG 4000		50%	2000	6000		63	
(162) Siemens (Atellica)		1000	0	0	16	1	CVPG 1000		50%	500	1500		16	
(179) Siemens		1000	0	0	11	0	CVPG 1000		50%	500	1500		11	
Other					9	0							0	
1x 15, 2x 25, 1x 36, 1x 52, 1x 135, 1x 148, 1x 166, 1x 999														

Sample B1		5,88	6,6	110	188							179	162	91
(1) Abbott		1,47	0,34	23	64	0	CVPG 1,47	0,1	50%	0,735	2,21		64	
(12) Beckman Coulter		0,669	0,41	61	18	2	CVPG 0,669	0,25	50%	0,334	1,01		18	
(29) Siemens (Immulin)		20	0	0	7	1	CVPG 20		50%	10	30		7	
(60) Roche		12,5	2,2	18	63	1	CVPG 12,5	0,7	50%	6,25	18,8		63	
(162) Siemens (Atellica)		1,28	0,074	5,8	16	2	CVPG 1,28	0,048	50%	0,64	1,92		16	
(179) Siemens		1,27	0,061	4,8	11	0	CVPG 1,27	0,045	50%	0,635	1,91		11	
Other					9	1							0	
1x 15, 2x 25, 1x 36, 1x 52, 1x 135, 1x 148, 1x 166, 1x 999														

Set 2

(590) anti-TSH receptor	[U/L]											93	90	97
Sample A2		4,08	0,77	19	98							93	92	99
(1) Abbott		5,14	0,49	9,4	18	0	CVPG 5,14	0,28	33%	3,44	6,84		18	
(29) Siemens (Immulin)		1,21	0,074	6,1	9	0	CVPG 1,21	0,092	33%	0,81	1,61		9	
(60) Roche		4,05	0,41	10	66	0	CVPG 4,05	0,12	33%	2,71	5,39		66	
Other					5	0							0	
1x 24, 1x 36, 2x 73, 1x 87														

Sample B2		0,795	0,056	7	98		CVP	0,795	0,014	100%	0	1,59	98	96	98
(1) Abbott		1,14	0,42	37	18	0							18		
(29) Siemens (Immulin)		0,1	0	0	9	0							9		
(60) Roche		0,8	0	0	66	0							66		
Other					5	0							5		
1x 24, 1x 36, 2x 73, 1x 87															