

EQA round: AT1/23 - Autoantibodies in Thyroid Diseases

Deadline: 17.4.2023

Setup: groups - manufacturer of kit

AV = assigned value

N_{tot} = total number of the resultsN_{eva} = number of the results assessed

CVP = consensus of all participants

N_{rel} = relative number of the resultsN_{suc} = number of successful results

CVPG = consensus of the participants' groups

S_{rel} = relative success

>>> ... expected result

> ... acceptable result

± ... result not assessed

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result		N _{eva}	N _{suc}	S _{rel} [%]

Set 1

(576) anti-microsomes (TPO)		198				198	193	97
Sample A1		198				198	196	99
(1) Abbott		1	0,5	Negative				
	CVP >>>	64	32	Positive				
(12) Beckman Coulter	CVP >>>	20	10	Positive				
(15) bioMérieux	CVP >>>	1	0,5	Positive				
(25) TOSOH	CVP >>>	3	1,5	Positive				
(29) Siemens (Immulin)	CVP >>>	11	5,6	Positive				
(60) Roche		1	0,5	Negative				
	CVP >>>	64	32	Positive				
(135) OrgenTec	CVP >>>	1	0,5	Positive				
(162) Siemens (Atellica)	CVP >>>	16	8,1	Positive				
(166) Thermo Fisher	CVP >>>	1	0,5	Positive				
(179) Siemens	CVP >>>	13	6,6	Positive				
(998) home-made	CVP >>>	1	0,5	Positive				
(999) another manufacturer	CVP >>>	1	0,5	Positive				
Sample B1		198				198	193	97
(1) Abbott	CVP >>>	63	32	Negative				
		1	0,5	Inconclusive result (borderline)				
		1	0,5	Positive				
(12) Beckman Coulter	CVP >>>	19	9,6	Negative				
		1	0,5	Positive				
(15) bioMérieux	CVP >>>	1	0,5	Negative				
(25) TOSOH	CVP >>>	3	1,5	Negative				
(29) Siemens (Immulin)	CVP >>>	11	5,6	Negative				
(60) Roche	CVP >>>	63	32	Negative				
		2	1	Positive				
(135) OrgenTec	CVP >>>	1	0,5	Negative				
(162) Siemens (Atellica)	CVP >>>	16	8,1	Negative				
(166) Thermo Fisher	CVP >>>	1	0,5	Negative				
(179) Siemens	CVP >>>	13	6,6	Negative				
(998) home-made	CVP >>>	1	0,5	Negative				
(999) another manufacturer	CVP >>>	1	0,5	Negative				
(575) anti-thyreoglobulin		192				128	126	98
Sample A1		192				192	191	99
(1) Abbott	CVP >>>	64	33	Positive				
(12) Beckman Coulter		1	0,5	Negative				
	CVP >>>	18	9,4	Positive				
(15) bioMérieux	CVP >>>	1	0,5	Positive				
(25) TOSOH	CVP >>>	2	1	Positive				
(29) Siemens (Immulin)	CVP >>>	11	5,7	Positive				
(36) Immunotech	CVP >>>	1	0,5	Positive				
(60) Roche	CVP >>>	63	33	Positive				
(135) OrgenTec	CVP >>>	1	0,5	Positive				
(162) Siemens (Atellica)	CVP >>>	16	8,3	Positive				
(166) Thermo Fisher	CVP >>>	1	0,5	Positive				
(179) Siemens	CVP >>>	11	5,7	Positive				
(998) home-made	CVP >>>	1	0,5	Positive				
(999) another manufacturer	CVP >>>	1	0,5	Positive				
Sample B1		192				128	127	99
(1) Abbott		± 10	5,2	Negative				
		± 5	2,6	Inconclusive result (borderline)				
		± 49	26	Positive				
(12) Beckman Coulter	CVP >>>	19	9,9	Negative				
(15) bioMérieux	CVP >>>	1	0,5	Negative				
(25) TOSOH	CVP >>>	2	1	Negative				
(29) Siemens (Immulin)	CVP >>>	11	5,7	Negative				
(36) Immunotech	CVP >>>	1	0,5	Negative				
(60) Roche	CVP >>>	63	33	Negative				
(135) OrgenTec	CVP >>>	1	0,5	Negative				
(162) Siemens (Atellica)	CVP >>>	16	8,3	Negative				
(166) Thermo Fisher	CVP >>>	1	0,5	Negative				

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Test Sample Group	AV	N _{tot}	Frequency of the results		Success		
			N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(179) Siemens	CVP >>>	10	5,2	Negative			
		1	0,5	Inconclusive result (borderline)			
(998) home-made	CVP >>>	1	0,5	Negative			
(999) another manufacturer	CVP >>>	1	0,5	Negative			

Set 2

(590) anti-TSH receptor		99				99	93	94
Sample A2		99				99	96	97
(1) Abbott	CVP >>>	16	16	Negative				
		1	1	Positive				
(24) B.R.A.H.M.S.		1	1	Positive				
(29) Siemens (Immulate)	CVP >>>	9	9,1	Negative				
		1	1	Inconclusive result (borderline)				
(36) Immunotech	CVP >>>	1	1	Negative				
(60) Roche	CVP >>>	66	67	Negative				
(73) Snibe	CVP >>>	3	3	Negative				
(87) Euroimmun	CVP >>>	1	1	Negative				
Sample B2		99				99	95	96
(1) Abbott		1	1	Negative				
	CVP >>>	16	16	Positive				
(24) B.R.A.H.M.S.	CVP >>>	1	1	Positive				
(29) Siemens (Immulate)	CVP >>>	10	10	Positive				
(36) Immunotech	CVP >>>	1	1	Positive				
(60) Roche		2	2	Negative				
	CVP >>>	64	65	Positive				
(73) Snibe	CVP >>>	3	3	Positive				
(87) Euroimmun		1	1	Negative				