

EQA round: AT1/24 - Autoantibodies in Thyroid Diseases

Deadline: 12.4.2024

Setup: groups - M (measurement principle)

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)		201			135	133	99
Sample A1		201			135	133	99
(1) Fluorescent methods	CVP >>>	2	1	Negative			
(2) EIA methods	CVP >>>	9	4,5	Negative			
		1	0,5	Inconclusive result (borderline)			
(5) LIA, ILMA	CVP >>>	110	55	Negative			
(5) LIA, ILMA; (1) Abbott	±	3	1,5	Negative			
	±	13	6,5	Inconclusive result (borderline)			
	±	50	25	Positive			
(5) LIA, ILMA; (29) Siemens (Immulin)		1	0,5	Inconclusive result (borderline)			
	>	10	5	Positive			
(99) Another measurement principle	CVP >>>	2	1	Negative			
Sample B1		201			201	201	100
(1) Fluorescent methods	CVP >>>	2	1	Positive			
(2) EIA methods	CVP >>>	10	5	Positive			
(5) LIA, ILMA	CVP >>>	187	93	Positive			
(99) Another measurement principle	CVP >>>	2	1	Positive			
(575) anti-thyreoglobulin		195			131	130	99
Sample A1		195			131	130	99
(1) Fluorescent methods	CVP >>>	2	1	Negative			
(2) EIA methods	CVP >>>	9	4,6	Negative			
(4) RIA, IRMA, RRA	CVP >>>	1	0,5	Negative			
(5) LIA, ILMA	CVP >>>	116	59	Negative			
		1	0,5	Positive			
(5) LIA, ILMA; (1) Abbott	±	30	15	Negative			
	±	19	9,7	Inconclusive result (borderline)			
	±	15	7,7	Positive			
(99) Another measurement principle	CVP >>>	2	1	Negative			
Sample B1		195			195	195	100
(1) Fluorescent methods	CVP >>>	2	1	Positive			
(2) EIA methods	CVP >>>	9	4,6	Positive			
(4) RIA, IRMA, RRA	CVP >>>	1	0,5	Positive			
(5) LIA, ILMA	CVP >>>	181	93	Positive			
(99) Another measurement principle	CVP >>>	2	1	Positive			
Set 2							
(590) anti-TSH receptor		103			103	102	99
Sample A2		103			103	102	99
(2) EIA methods	CVP >>>	5	4,9	Negative			
		1	1	Inconclusive result (borderline)			
(4) RIA, IRMA, RRA	CVP >>>	2	1,9	Negative			
(5) LIA, ILMA	CVP >>>	94	91	Negative			
(99) Another measurement principle	CVP >>>	1	1	Negative			
Sample B2		103			103	103	100
(2) EIA methods	CVP >>>	6	5,8	Positive			
(4) RIA, IRMA, RRA	CVP >>>	2	1,9	Positive			
(5) LIA, ILMA	CVP >>>	94	91	Positive			
(99) Another measurement principle	CVP >>>	1	1	Positive			