

EQA round: AT1/23 - Autoantibodies in Thyroid Diseases

Deadline: 17.4.2023

Setup: groups - 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) 198 198 193 97

Sample A1 198 198 196 99

(1) Fluorescent methods CVP >>> 2 1 Positive

(2) EIA methods CVP >>> 10 5,1 Positive

(5) LIA, ILMA 2 1 Negative

CVP >>> 182 92 Positive

(99) Another measurement principle CVP >>> 2 1 Positive

Sample B1 198 198 193 97

(1) Fluorescent methods CVP >>> 2 1 Negative

(2) EIA methods CVP >>> 10 5,1 Negative

(5) LIA, ILMA CVP >>> 179 90 Negative

1 0,5 Inconclusive result (borderline)

4 2 Positive

(99) Another measurement principle CVP >>> 2 1 Negative

(575) anti-thyreoglobulin 192 128 126 98

Sample A1 192 192 191 99

(1) Fluorescent methods CVP >>> 2 1 Positive

(2) EIA methods CVP >>> 9 4,7 Positive

(4) RIA, IRMA, RRA CVP >>> 1 0,5 Positive

(5) LIA, ILMA 1 0,5 Negative

CVP >>> 177 92 Positive

(99) Another measurement principle CVP >>> 2 1 Positive

Sample B1 192 128 127 99

(1) Fluorescent methods CVP >>> 2 1 Negative

(2) EIA methods CVP >>> 9 4,7 Negative

(4) RIA, IRMA, RRA CVP >>> 1 0,5 Negative

(5) LIA, ILMA CVP >>> 113 59 Negative

1 0,5 Inconclusive result (borderline)

(5) LIA, ILMA; (1) Abbott ± 10 5,2 Negative

± 5 2,6 Inconclusive result (borderline)

± 49 26 Positive

(99) Another measurement principle CVP >>> 2 1 Negative

Set 2

(590) anti-TSH receptor 99 99 93 94

Sample A2 99 99 96 97

(2) EIA methods CVP >>> 4 4 Negative

(4) RIA, IRMA, RRA CVP >>> 1 1 Negative

1 1 Positive

(5) LIA, ILMA CVP >>> 90 91 Negative

1 1 Inconclusive result (borderline)

1 1 Positive

(99) Another measurement principle CVP >>> 1 1 Negative

Sample B2 99 99 95 96

(2) EIA methods 1 1 Negative

CVP >>> 3 3 Positive

(4) RIA, IRMA, RRA CVP >>> 2 2 Positive

(5) LIA, ILMA 3 3 Negative

CVP >>> 89 90 Positive

(99) Another measurement principle CVP >>> 1 1 Positive