

## EQA round: AIM1/24 - Autoimmunity

Deadline: 15.3.2024

Setup: Slovakia

AV = assigned value	N <sub>tot</sub> = total number of the results	N <sub>eva</sub> = number of the results assessed
CVP = consensus of all participants	N <sub>rel</sub> = relative number of the results	N <sub>suc</sub> = number of successful results
>>> ... expected result		S <sub>rel</sub> = relative success
> ... acceptable result		
± ... result not assessed		

Test Sample Group	Frequency of the results				Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
<b>Set 1</b>							
(560) ANA screening (antibodies against cell nucleus) - prove		19			19	16	84
<b>Sample A1</b>		19			19	17	89
All results	CVP >>>	17	89	Negative			
		1	5,3	Inconclusive result (borderline)			
		1	5,3	Positive			
<b>Sample B1</b>		19			19	18	95
All results		1	5,3	Negative			
	CVP >>>	18	95	Positive			
(572) ANA screening (antibodies against cell nucleus) - semi-quantity		12			0		
<b>Sample A1</b>		12			0		
All results		± 2	17	titre 0 (not measurable)			
		± 5	42	titre 40			
		± 5	42	titre 80			
<b>Sample B1</b>		12			0		
All results		± 2	17	titre 40			
		± 2	17	titre 80			
		± 1	8,3	titre 1280			
		± 7	58	titre 2560			
(561) ANA - type of fluorescence - nucleus		15			15	12	80
<b>Sample A1</b>		15			15	13	87
All results	CVP >>>	13	87	No fluorescence			
		1	6,7	Coarse or fine speckled or nuclear matrix; Homogenous or clumpy nucleolar pattern			
		1	6,7	Coarse or fine speckled or nuclear matrix; Midbody pattern (MSA-2)			
<b>Sample B1</b>		15			15	12	80
All results		1	6,7	Smooth membranous nuclear pattern; Coarse or fine speckled or nuclear matrix			
	CVP >>>	12	80	Coarse or fine speckled or nuclear matrix			
		1	6,7	Coarse or fine speckled or nuclear matrix; No fluorescence			
		1	6,7	Coarse or fine speckled or nuclear matrix; DFS 70 like			
(563) ANA screening (antibodies against cytoplasm) - prove		15			0		
<b>Sample A1</b>		15			15	15	100
All results	CVP >>>	15	100	Negative			
<b>Sample B1</b>		15			0		
All results		± 14	93	Negative			
		± 1	6,7	Positive			
(573) ANA screening (antibodies against cytoplasm) - semi-quantity		11			0		
<b>Sample A1</b>		11			0		
All results		± 3	27	titre 0 (not measurable)			
		± 5	45	titre 40			
		± 3	27	titre 80			
<b>Sample B1</b>		11			0		
All results		± 2	18	titre 0 (not measurable)			
		± 5	45	titre 40			
		± 3	27	titre 80			
		± 1	9,1	titre 640			
(564) ANA - type of fluorescence - cytoplasm		15			0		
<b>Sample A1</b>		15			15	15	100
All results	CVP >>>	15	100	No fluorescence			
<b>Sample B1</b>		15			0		
All results		± 13	87	No fluorescence			
		± 2	13	Fine speckled cytoplasmic pattern			
<b>Set 2</b>							
(565) ANCA imunofluorescence - prove		8			8	7	88
<b>Sample A2</b>		8			8	7	88
All results		1	13	Negative			

Test Sample Group	Frequency of the results				Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
	CVP >>>	7	88	Positive			
<b>Sample B2</b>		8			8	8	100
All results	CVP >>>	8	100	Positive			
<b>(574) ANCA IF (ethanol) - semi-quantity</b>		4			0		
<b>Sample A2</b>		4			0		
All results		±	1	25 titre 20			
		±	2	50 titre 40			
		±	1	25 titre 2560			
<b>Sample B2</b>		4			0		
All results		±	1	25 titre 20			
		±	1	25 titre 40			
		±	1	25 titre 320			
		±	1	25 titre 2560			
<b>(578) ANCA IF (formalin) - semi-quantity</b>		4			0		
<b>Sample A2</b>		4			0		
All results		±	1	25 titre 20			
		±	1	25 titre 40			
		±	1	25 titre 80			
		±	1	25 titre 2560			
<b>Sample B2</b>		4			0		
All results		±	1	25 titre 20			
		±	1	25 titre 40			
		±	1	25 titre 80			
		±	1	25 titre 1280			
<b>(566) ANCA - type of fluorescence</b>		7			7	6	86
<b>Sample A2</b>		7			7	6	86
All results		1	14	No fluorescence			
	CVP >>>	6	86	Cytoplasmic granular fluorescence			
<b>Sample B2</b>		7			7	7	100
All results	CVP >>>	7	100	Perinuclear fluorescence			
<b>(569) anti-myeloperoxidase</b>		14			14	14	100
<b>Sample A2</b>		14			14	14	100
All results	CVP >>>	14	100	Negative			
<b>Sample B2</b>		14			14	14	100
All results	CVP >>>	14	100	Positive			
<b>(570) anti-proteinase III</b>		14			14	13	93
<b>Sample A2</b>		14			14	13	93
All results		1	7,1	Negative			
	CVP >>>	13	93	Positive			
<b>Sample B2</b>		14			14	14	100
All results	CVP >>>	14	100	Negative			
<b>Set 3</b>							
<b>(585) anti-centromere</b>		16			16	16	100
<b>Sample A3</b>		16			16	16	100
All results	CVP >>>	16	100	Negative			
<b>Sample B3</b>		16			16	16	100
All results	CVP >>>	16	100	Negative			
<b>(584) anti-ENA, antigen Jo-1</b>		18			18	18	100
<b>Sample A3</b>		18			18	18	100
All results	CVP >>>	18	100	Negative			
<b>Sample B3</b>		18			18	18	100
All results	CVP >>>	18	100	Negative			
<b>(583) anti-ENA, antigen RNP</b>		17			17	17	100
<b>Sample A3</b>		17			17	17	100
All results	CVP >>>	17	100	Negative			
<b>Sample B3</b>		17			17	17	100
All results	CVP >>>	17	100	Negative			
<b>(582) anti-ENA, antigen Scl-70</b>		18			18	18	100
<b>Sample A3</b>		18			18	18	100
All results	CVP >>>	18	100	Negative			
<b>Sample B3</b>		18			18	18	100
All results	CVP >>>	18	100	Negative			
<b>(580) anti-ENA, antigen SS-A/Ro-60</b>		18			18	18	100
<b>Sample A3</b>		18			18	18	100
All results	CVP >>>	18	100	Positive			
<b>Sample B3</b>		18			18	18	100
All results	CVP >>>	18	100	Negative			

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<b>(581) anti-ENA, antigen SS-B/La</b>		18			18	17	94
<b>Sample A3</b>		18			18	17	94
All results		1	5,6	Negative			
	CVP >>>	17	94	Positive			
<b>Sample B3</b>		18			18	18	100
All results	CVP >>>	18	100	Negative			
<b>Set 4</b>							
<b>(588) anti-dsDNA immunofluorescence - prove</b>		7			7	7	100
<b>Sample A4</b>		7			7	7	100
All results	CVP >>>	7	100	Positive			
<b>Sample B4</b>		7			7	7	100
All results	CVP >>>	7	100	Negative			
<b>(577) anti-dsDNA immunofluorescence - semi-quantity</b>		5			0		
<b>Sample A4</b>		5			0		
All results		± 1	20	titre 10			
		± 3	60	titre 640			
		± 1	20	titre 1280			
<b>Sample B4</b>		5			0		
All results		± 1	20	titre 0 (not measurable)			
		± 4	80	titre 10			
<b>(589) anti-dsDNA other methods</b>		11			11	11	100
<b>Sample A4</b>		11			11	11	100
All results	CVP >>>	11	100	Positive			
<b>Sample B4</b>		11			11	11	100
All results	CVP >>>	11	100	Negative			
<b>Set 5</b>							
<b>(591) anti-nukleosomes IgG</b>		11			11	9	82
<b>Sample A5</b>		11			11	10	91
All results	CVP >>>	10	91	Negative			
		1	9,1	Positive			
<b>Sample B5</b>		11			11	9	82
All results		2	18	Negative			
	CVP >>>	9	82	Positive			