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UK NEQAS for Antibodies to Nuclear and Related Antigens

Distribution :	184	July 2018	Participant :	94317
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663 out of 723 participants returned data for this distribution. 92% response rate.

Nil Responses

653, 653A, 1583, 10674A, 11690, 12192, 12198, 13923, 14324, 14398, 14425B, 14558A, 14575, 14638, 14640, 14804, 14888, 90604, 90704, 91642, 91666, 91741, 91835, 91896, 91976, 92342, 92447, 92464A, 92601B, 92700, 92786, 92787, 93354, 93682, 93740, 94255, 94346, 94357, 94358, 94736, 94931, 95042, 95365A, 95365B, 95496, 95519, ORG_G, ORG_A, NOKLUS, YVSOLAB, ANAND, VAR, DEKS, KRIT, ORG, BIOG, INFO, CODEX, TVN, SEQC

Sample 184-1 was a serum from a 26 year old male donor with SLE/Discoid Lupus

Sample 184-2 was a serum from a 45 year old male donor with Sjogren's syndrome

Sample	Analyte	Target Response	Your Response	Score
184-1	ANA (nuclear, cytoplasmic, mitotic)	Positive	Positive	0
	dsDNA	Negative	Negative	0
	Centromere	Negative	Negative	0
	ENA	Sm/Ro	Ro/RNP/Sm	0

Sample	Analyte	Target Response	Your Response	Score	OMIS
184-2	ANA (nuclear, cytoplasmic, mitotic)	Positive	Positive	0	0
	dsDNA	Negative	Negative	0	0
	Centromere	Negative	Negative	0	0
	ENA	Ro/La	Ro/La	0	0
				Total MIS	0

The current window of analysis comprises the previous six distributions.

Comments

Sample 184-1

Designated Response
Sm/Ro

Optional Response
RNP

149 laboratories reported a cytoplasmic speckled pattern (AC-18, AC-19, AC-20) and 98 laboratories commented on the presence of Ribosomal P antibodies.

The Misclassification scoring (**Total MIS**) system for the **qualitative** element of the scheme gives an indication of the number of instances where a laboratory's response is at variance with that defined for each specimen in a window of **six** distributions.

A panel of reference laboratories (10656, 10660, 10674, 10739, 10776, 11801, 14604, 91325, 92923, 93635, 93779) were in agreement in providing the target responses.

Laboratories have been given misclassification marks for an incorrect response to each analyte.

An OMIS of 2 or more for any one analyte will be classed as poor performance.

The qualitative elements are assessed by misclassification over a 12 sample window. The categories of performance are:

	<u>Total MIS</u>
● Good	zero
● Adequate	1-2
● Poor	>2

For further performance criteria information please see our website at <http://www.immqas.org.uk>.

If laboratories require further assistance please contact the centre.

Summary Page for Sample 184-1

Distribution : 184

July 2018

Participant : 94317

	Sample 184-1		
	Returns	Positive	Negative
Analyte			
ANA (nuclear, cytoplasmic, mitotic)	587	579	6
dsDNA	610	4	605
Centromere	449	2	447

Extractable Nuclear Antigens	
Ro	9
Sm	1
Ro/La	4
Ro/RNP	16
Ro/Sm	53
La/Sm	1
RNP/Sm	6
Ro/RNP/Sm	369
La/RNP/Sm	2
Ro/RNP/Sm/Scl-70	1
Screen Only Positive	59
Negative	4
Total Responses	525
Correct Response	92 %

HEp2 Cell Pattern Source	HEp2 Cell Pattern Category (ICAP)	Count
Nuclear	Homogeneous (AC-1)	2
Nuclear	Nucleolar (AC-8, AC-9, AC-10)	1
Nuclear	Pleomorphic (AC-13, AC-14)	1
Nuclear	Speckled (AC-2, AC-4, AC-5, AC-29)	425
Nuclear	Dense fine speckled (AC-2)	8
Nuclear	Fine speckled (AC-4)	112
Nuclear	Large/coarse speckled (AC-5)	60
Nuclear	CENP-F-like (AC-14)	1
Cytoplasmic	Reticular / AMA (AC-21)	4
Cytoplasmic	Fibrillar (AC-15, AC-16, AC-17)	1
Cytoplasmic	Speckled (AC-18, AC-19, AC-20)	149
Cytoplasmic	Discrete dots (AC-18)	1
Cytoplasmic	Dense fine speckled (AC-19)	79
Cytoplasmic	Fine speckled (AC-20)	23
Other		9
Negative	Negative (AC-0)	2

Summary Page for Sample 184-2

Distribution : 184

July 2018

Participant : 94317

Analyte	Sample 184-2		
	Returns	Positive	Negative
ANA (nuclear, cytoplasmic, mitotic)	586	583	2
dsDNA	611	7	603
Centromere	447	5	442

Extractable Nuclear Antigens	
Ro	1
La	1
Ro/La	463
Ro/La/Sm	1
Ro/RNP/Sm	2
Screen Only Positive	54
Negative	3
Total Responses	525
Correct Response	98%

HEp2 Cell Pattern Source	HEp2 Cell Pattern Category (ICAP)	Count
Nuclear	Homogeneous (AC-1)	4
Nuclear	Centromere (AC-3)	1
Nuclear	Nucleolar (AC-8, AC-9, AC-10)	7
Nuclear	Pleomorphic (AC-13, AC-14)	1
Nuclear	Speckled (AC-2, AC-4, AC-5, AC-29)	428
Nuclear	Dense fine speckled (AC-2)	5
Nuclear	Fine speckled (AC-4)	159
Nuclear	Large/coarse speckled (AC-5)	18
Nuclear	CENP-F-like (AC-14)	1
Cytoplasmic	Rods and rings (AC-23)	1
Cytoplasmic	Fibrillar (AC-15, AC-16, AC-17)	1
Cytoplasmic	Speckled (AC-18, AC-19, AC-20)	10
Cytoplasmic	Linear/actin (AC-15)	1
Cytoplasmic	Dense fine speckled (AC-19)	2
Cytoplasmic	Fine speckled (AC-20)	1
Other		3

ANA (nuclear, cytoplasmic, mitotic) Responses Sample 184-1

Distribution :	184	July 2018	Participant :	94317
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Your Results	
Positive : True	Unit : Titre
Negative : False	Method : Indirect Immunofluorescence
Quantitative : 640	Manufacturer : Binding Site
	Substrate : Hep2

INDIRECT IMMUNOFLUORESCENCE

SUBSTRATE	Returns	Positive	Negative	Mean	Observed Ranges	
Rat Tissue	4	4	0	480	320	640
Euroimmun	4	4	0	480	320	640
Hep2	422	417	3	885	1	8000
A. Menarini - Zenit EIA	14	13	0	393	31	1280
AESKU	30	30	0	1186	40	2560
Alpha Dia	1	1	0	320	320	320
Binding Site	1	1	0	640	640	640
BioDiagnostics	10	10	0	800	320	1280
Bio-Rad/Kallestad/Sanofi	52	49	2	762	80	2560
Biosystems	14	13	1	734	320	1280
Diamedix	1	1	0	0		
Diasorin	5	5	0	240	160	320
Euroimmun	90	90	0	1290	1	8000
Generic Assays	1	1	0	2560	2560	2560
Immunoconcepts	21	21	0	1231	40	5120
In House	1	1	0	640	640	640
Inova	158	158	0	665	40	2560
MBL- BION	4	4	0	640	640	640
Medica	1	1	0	1280	1280	1280
ORGenTec	1	1	0	0		
Other ...	5	5	0	600	160	1280
THERADIAG (BMD)	1	1	0	1280	1280	1280
Trinity Biotech (Immco)	9	9	0	224	1	320
ZEUS	2	2	0	1280	1280	1280
Hep2000	45	44	1	935	160	2560
Immunoconcepts	45	44	1	935	160	2560
Other ...	3	3	0	373	160	640
Euroimmun	2	2	0	480	320	640
Other ...	1	1	0	160	160	160

Please note: The statistical figures in the tables above are trimmed

ANA (nuclear, cytoplasmic, mitotic) Responses Sample 184-1

Distribution : 184	July 2018	Participant : 94317
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ENZYME IMMUNOASSAY

UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml	13	13	0	134	6	286
Genesis	1	1	0	100	100	100
Hycor Biomedical	1	1	0	286	286	286
Inova	9	9	0	140	13	230
ORGenTec	1	1	0	6	6	6
Other ...	1	1	0	106	106	106
Units/ml	1	1	0	3	3	3
Dr Fooke	1	1	0	3	3	3
Ratio	74	72	2	19	0	200
Biosystems	1	1	0	5	5	5
Diasorin	1	1	0	12	12	12
Euroimmun	1	1	0	6	6	6
Inova	1	1	0	6	6	6
ORGenTec	2	2	0	4	4	4
Other ...	3	2	1	69	0	200
Phadia 100 EliA	2	2	0	29	27	32
Phadia 1000/2500 EliA (CTD)	3	3	0	13	13	14
Phadia 250 EliA	19	18	1	20	15	28
Phadia 250 EliA (CTD)	41	41	0	17	5	24
Other ...	3	3	0	66	11	176
Palex Diagnostica	3	3	0	66	11	176
Index	4	4	0	4	3	4
AESKU	4	4	0	4	3	4

Chemiluminescence

UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
Units/ml	4	4	0	201	200	202
Inova QUANTA Flash	4	4	0	201	200	202
Index	1	1	0	11	11	11
A. Menarini - Zenit RA	1	1	0	11	11	11

Luminex Technology

UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
Index	11	11	0	6	5	8
Luminex Tech. - Bio-Rad Bioplex 2200	11	11	0	6	5	8

Other ...

UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml	1	1	0	90	90	90
Other ...	1	1	0	90	90	90
Other ...	1	1	0	17	17	17
Other ...	1	1	0	17	17	17

Please note: The statistical figures in the tables above are trimmed

ANA (nuclear, cytoplasmic, mitotic) Responses Sample 184-2

Distribution : 184	July 2018	Participant : 94317
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Your Results	
Positive : True	Unit : Titre
Negative : False	Method : Indirect Immunofluorescence
Quantitative : 320	Manufacturer : Binding Site
	Substrate : Hep2

INDIRECT IMMUNOFLUORESCENCE

SUBSTRATE	Returns	Positive	Negative	Mean	Observed Ranges	
Rat Tissue	4	4	0	820	40	2560
Euroimmun	4	4	0	820	40	2560
Hep2	423	421	1	1154	1	16000
A. Menarini - Zenit EIA	14	14	0	714	32	2560
AESKU	30	30	0	1115	80	2560
Alpha Dia	1	1	0	320	320	320
Binding Site	1	1	0	320	320	320
BioDiagnostics	10	10	0	1013	320	1280
Bio-Rad/Kallestad/Sanofi	52	50	1	928	80	2560
Biosystems	14	14	0	1120	640	1600
Diamedix	1	1	0	0		
Diasorin	5	5	0	400	160	640
Euroimmun	90	90	0	1604	1	16000
Generic Assays	1	1	0	1280	1280	1280
Immunoconcepts	23	23	0	882	160	3200
In House	1	1	0	1280	1280	1280
Inova	158	158	0	1115	40	5120
MBL- BION	4	4	0	480	320	640
Medica	1	1	0	640	640	640
ORGenTec	1	1	0	0		
Other ...	5	5	0	1160	160	2560
THERADIAG (BMD)	1	1	0	0		
Trinity Biotech (Immco)	8	8	0	360	160	640
ZEUS	2	2	0	0		
Hep2000	43	43	0	1324	160	5120
Immunoconcepts	43	43	0	1324	160	5120
Other ...	3	3	0	533	320	640
Euroimmun	2	2	0	480	320	640
Other ...	1	1	0	640	640	640

Please note: The statistical figures in the tables above are trimmed

ANA (nuclear, cytoplasmic, mitotic) Responses Sample 184-2

Distribution : 184	July 2018	Participant : 94317
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ENZYME IMMUNOASSAY

UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml	14	14	0	133	6	337
Genesis	1	1	0	69	69	69
Hycor Biomedical	1	1	0	337	337	337
Inova	9	9	0	141	10	226
ORGenTec	1	1	0	6	6	6
Other ...	1	1	0	186	186	186
Palex Diagnostica	1	1	0	12	12	12
Units/ml	1	1	0	7	7	7
Dr Fooke	1	1	0	7	7	7
Ratio	74	73	1	31	0	178
Biosystems	1	1	0	5	5	5
Diasorin	1	1	0	9	9	9
Euroimmun	1	1	0	8	8	8
Inova	1	1	0	6	6	6
ORGenTec	2	2	0	5	5	5
Other ...	3	2	1	61	0	178
Phadia 100 EliA	2	2	0	32	32	32
Phadia 1000/2500 EliA (CTD)	3	3	0	26	26	27
Phadia 250 EliA	19	19	0	38	3	126
Phadia 250 EliA (CTD)	41	41	0	29	19	40
Other ...	2	2	0	126	12	240
Palex Diagnostica	2	2	0	126	12	240
Index	4	4	0	10	3	16
AESKU	4	4	0	10	3	16

Chemiluminescence

UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
Units/ml	4	4	0	201	200	202
Inova QUANTA Flash	4	4	0	201	200	202
Index	1	1	0	17	17	17
A. Menarini - Zenit RA	1	1	0	17	17	17

Luminex Technology

UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
Index	11	11	0	7	6	8
Luminex Tech. - Bio-Rad Bioplex 2200	11	11	0	7	6	8

Other ...

UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml	1	1	0	86	86	86
Other ...	1	1	0	86	86	86
Other ...	1	1	0	23	23	23
Other ...	1	1	0	23	23	23

Please note: The statistical figures in the tables above are trimmed

dsDNA Responses Sample 184-1

Distribution : 184

July 2018

Participant : 94317

Your Results	
Positive : False	Unit : IU/ml
Negative : True	Method : Enzyme Immunoassay/ELISA
Quantitative : 2.7	Manufacturer : Phadia 1000/2500 EliA
	Substrate : Not Applicable

INDIRECT IMMUNOFLUORESCENCE

SUBSTRATE	Returns	Positive	Negative	Mean	Observed Ranges	
Crithidia Lucillae	159	3	155	11	0	50
A. Menarini - Zenit EIA	7	0	7	12	4	20
AESKU	6	0	6	0		
Alpha Dia	1	0	1	0		
BioDiagnostics	4	0	4	0		
Bio-Rad/Kallestad/Sanofi	20	0	20	10	10	11
Biosystems	10	0	10	10	10	10
Diasorin	1	0	1	0		
Euroimmun	32	0	32	13	0	50
Immunoconcepts	20	1	19	15	10	40
In House	1	0	1	0		
Inova	48	0	47	6	0	10
Other ...	3	0	3	0	0	0
Palex Diagnostica	2	2	0	30	20	40
SCIMEDX	1	0	1	0		
Trinity Biotech (Immco)	3	0	3	5	1	10

Please note: The statistical figures in the tables above are trimmed

dsDNA Responses Sample 184-1

Distribution : 184	July 2018	Participant : 94317
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ENZYME IMMUNOASSAY

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		328	0	328	6	0 73
AESKU		5	0	5	4	0 8
Axis Shield/Diastat		4	0	4	11	11 12
Bio-Rad/Kallestad/Sanofi		4	0	4	15	10 21
Diasorin		3	0	3	6	5 9
Diesse		2	0	2	10	10 10
Euro Diagnostica		7	0	7	12	8 18
Euroimmun		15	0	15	8	0 25
Generic Assays		1	0	1	15	15 15
Genesis		1	0	1	12	12 12
Hycor Biomedical		2	0	2	33	28 37
Inova		14	0	14	36	9 73
Luminex Tech. - THERADIAG (BMD)		1	0	1	29	29 29
ORGenTec		24	0	24	7	3 15
ORGenTec Alegria		11	0	11	8	0 16
Other ...		3	0	3	6	0 16
Phadia 100 EliA		8	0	8	5	3 9
Phadia 1000/2500 EliA		8	0	8	2	1 4
Phadia 250 EliA		213	0	213	3	0 6
Phadia Varelisa		2	0	2	4	3 5
Units/ml		1	0	1	0	0 0
Dr Fooke		1	0	1	0	0 0

Please note: The statistical figures in the tables above are trimmed

dsDNA Responses Sample 184-1

Distribution : 184

July 2018

Participant : 94317

Chemiluminescence

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		67	0	67	7	0 25
A. Menarini - Zenit RA		27	0	27	1	0 6
Inova QUANTA Flash		40	0	40	13	8 25

Immunoblotting

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
Other ...		1	0	1		
Other ...		1	0	1		
N/A		2	0	2		
D-tek		2	0	2		

Luminex Technology

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		35	0	35	4	1 44
Luminex Tech. - Bio-Rad Bioplex 2200		32	0	32	2	1 3
Luminex Tech. - THERADIAG (BMD)		2	0	2	14	7 21
ZEUS		1	0	1	44	44 44

Other ...

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		2	0	2	7	7 7
Other ...		2	0	2	7	7 7
Other ...		5	0	5	2	0 4
Other ...		5	0	5	2	0 4

Radioimmunoassay(RIA)

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		10	1	9	1	0 4
IBL INTERNATIONAL		5	0	5	1	0 4
Immulite-SMS Diag. Ltd		1	0	1	0	0 0
Trinity Biotech		4	1	3	1	0 3

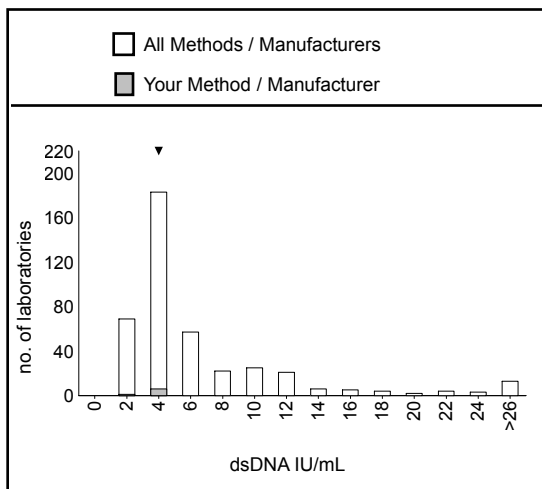
Please note: The statistical figures in the tables above are trimmed

dsDNA Responses Sample 184-1

Distribution : 184

July 2018

Participant : 94317



Your Method: Enzyme Immunoassay/ELISA

Your Manufacturer: Phadia 1000/2500 EliA

Your Result: 2.7

Your Unit: IU/ml

dsDNA Responses Sample 184-2

Distribution : 184

July 2018

Participant : 94317

Your Results	
Positive : False	Unit : IU/ml
Negative : True	Method : Enzyme Immunoassay/ELISA
Quantitative : 1	Manufacturer : Phadia 1000/2500 EliA
	Substrate : Not Applicable

INDIRECT IMMUNOFLUORESCENCE

SUBSTRATE	Returns	Positive	Negative	Mean	Observed Ranges	
Crithidia Lucillae	159	1	157	9	0	50
A. Menarini - Zenit EIA	7	1	6	1	1	1
AESKU	6	0	6	0		
Alpha Dia	1	0	1	0		
BioDiagnostics	4	0	4	0		
Bio-Rad/Kallestad/Sanofi	20	0	20	10	10	11
Biosystems	10	0	10	10	10	10
Diasorin	1	0	1	0		
Euroimmun	32	0	32	13	0	50
Immunoconcepts	20	0	20	16	10	40
In House	1	0	1	0		
Inova	48	0	47	7	0	10
Other ...	3	0	3	0	0	0
Palex Diagnostica	2	0	2	10	10	10
SCIMEDX	1	0	1	0		
Trinity Biotech (Immco)	3	0	3	5	1	10

Please note: The statistical figures in the tables above are trimmed

dsDNA Responses Sample 184-2

Distribution : 184

July 2018

Participant : 94317

ENZYME IMMUNOASSAY

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml		327	3	324	3	0	57
AESKU		5	0	5	2	0	5
Axis Shield/Diastat		4	0	4	4	3	4
Bio-Rad/Kallestad/Sanofi		4	0	4	8	6	12
Diasorin		3	0	3	4	4	5
Diesse		2	0	2	10	10	10
Euro Diagnostica		7	0	7	5	3	11
Euroimmun		15	1	14	8	0	19
Generic Assays		1	0	1	7	7	7
Genesis		1	0	1	3	3	3
Hycor Biomedical		2	0	2	19	8	30
Inova		14	0	14	32	8	57
Luminex Tech. - THERADIAG (BMD)		1	0	1	10	10	10
ORGenTec		24	0	24	5	0	11
ORGenTec Alegria		11	1	10	5	0	20
Other ...		3	0	3	2	0	6
Phadia 100 EliA		8	0	8	1	0	2
Phadia 1000/2500 EliA		8	0	8	1	0	2
Phadia 250 EliA		211	1	210	0	0	3
Phadia 250 EliA (CTD)		1	0	1	1	1	1
Phadia Varelisa		2	0	2	1	1	1
Units/ml		1	0	1	0	0	0
Dr Fooke		1	0	1	0	0	0

Please note: The statistical figures in the tables above are trimmed

dsDNA Responses Sample 184-2

Distribution : 184

July 2018

Participant : 94317

Chemiluminescence

UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml	66	1	65	5	0 59
A. Menarini - Zenit RA	26	0	26	0	0 4
Inova QUANTA Flash	40	1	39	10	5 59
Units/ml	1	0	1	0	0 0
A. Menarini - Zenit RA	1	0	1	0	0 0

Immunoblotting

UNIT	Returns	Positive	Negative	Mean	Observed Ranges
Other ...	1	0	1		
Other ...	1	0	1		
N/A	2	0	2		
D-tek	2	0	2		

Luminex Technology

UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml	35	0	35	3	1 29
Luminex Tech. - Bio-Rad Bioplex 2200	32	0	32	1	1 1
Luminex Tech. - THERADIAG (BMD)	2	0	2	7	2 12
ZEUS	1	0	1	29	29 29
Index	1	0	1		
Luminex Tech. - Bio-Rad Bioplex 2200	1	0	1		

Other ...

UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml	2	0	2	6	5 7
Other ...	2	0	2	6	5 7
Other ...	5	0	5	0	0 0
D-tek	1	0	1	0	0 0
Other ...	4	0	4	0	0 0

Radioimmunoassay(RIA)

UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml	11	2	9	2	0 9
IBL INTERNATIONAL	5	0	5	0	0 3
Immulin-SMS Diag. Ltd	1	0	1	0	0 0
Trinity Biotech	5	2	3	5	2 9

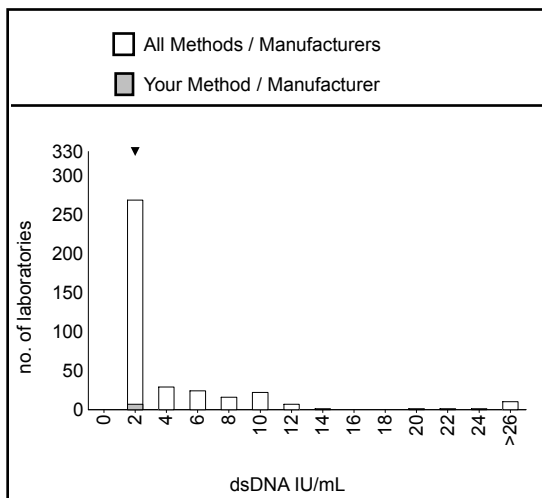
Please note: The statistical figures in the tables above are trimmed

dsDNA Responses Sample 184-2

Distribution : 184

July 2018

Participant : 94317



Your Method: Enzyme Immunoassay/ELISA

Your Manufacturer: Phadia 1000/2500 EliA

Your Result: 1

Your Unit: IU/ml

Centromere Responses Sample 184-1

Distribution : **184**

July 2018

Participant : **94317**

Your Results	
Positive : False	Unit : IU/ml
Negative : True	Method : Enzyme Immunoassay/ELISA
Quantitative : 0.5	Manufacturer : Phadia 250 EliA
	Substrate : Not Applicable

INDIRECT IMMUNOFLUORESCENCE

SUBSTRATE	Returns	Positive	Negative	Mean	Observed Ranges	
Rat Tissue	1	0	1	0		
Euroimmun	1	0	1	0		
Hep2	152	1	151	83	0	200
A. Menarini - Zenit EIA	5	0	5	106	0	160
AESKU	5	0	5	80	80	80
Alpha Dia	1	0	1	0		
BioDiagnostics	4	0	4	0		
Bio-Rad/Kallestad/Sanofi	22	0	22	86	10	160
Biosystems	5	0	5	0		
Diamedix	1	0	1	0		
Euroimmun	30	0	30	31	0	80
Immunoconcepts	6	0	6	130	80	200
Inova	63	0	63	85	0	160
Luminex Tech. - THERADIAG (BMD)	1	0	1	0		
MBL- BION	2	1	1	80	80	80
Medica	2	0	2	0		
ORGenTec	1	0	1	0		
Other ...	1	0	1	80	80	80
Trinity Biotech (Immco)	3	0	3	160	160	160
Hep2000	13	1	12	72	40	80
Immunoconcepts	13	1	12	72	40	80
Other ...	1	0	1	320	320	320
Euroimmun	1	0	1	320	320	320

Please note: The statistical figures in the tables above are trimmed

Centromere Responses Sample 184-1

Distribution : 184

July 2018

Participant : 94317

ENZYME IMMUNOASSAY

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml		134	0	134	0	0	11
A. Menarini - Zenit EIA		1	0	1	0	0	0
AESKU		3	0	3	1	0	2
Axis Shield/Diastat		1	0	1	1	1	1
Euroimmun		1	0	1	2	2	2
Inova		3	0	3	8	3	11
ORGenTec		7	0	7	1	0	3
Other ...		2	0	2	0	0	1
Phadia 100 EliA		6	0	6	0	0	1
Phadia 250 EliA		110	0	110	0	0	1
Units/ml		34	0	34	0	0	1
Dr Fooke		1	0	1	0	0	0
Phadia 100 EliA		1	0	1	0	0	0
Phadia 1000/2500 EliA		6	0	6	0	0	1
Phadia 250 EliA		26	0	26	0	0	1
Ratio		3	0	3	7	0	20
ORGenTec		1	0	1	1	1	1
Other ...		2	0	2	10	0	20

Please note: The statistical figures in the tables above are trimmed

Centromere Responses Sample 184-1

Distribution : 184

July 2018

Participant : 94317

Chemiluminescence

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml		23	0	23	2	0	16
A. Menarini - Zenit RA		8	0	8	0	0	0
Inova QUANTA Flash		15	0	15	3	1	16

Immunoblotting

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
N/A		39	0	39	0	0	0
AESKU		3	0	3			
Alpha Dia		2	0	2	0	0	0
D-tek		5	0	5			
Euroimmun		24	0	24	0	0	0
Generic Assays		1	0	1			
MIKROGEN DIAGNOSTIK		1	0	1			
Other ...		3	0	3	0	0	0

Line Immunoassay/LIA

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
N/A		3	0	3	80	80	80
Innogenetics		2	0	2	80	80	80
Other ...		1	0	1			

Luminex Technology

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml		10	0	10	12	0	38
Luminex Tech. - Bio-Rad Bioplex 2200		3	0	3	0	0	0
Luminex Tech. - THERADIAG (BMD)		5	0	5	5	4	7
ZEUS		2	0	2	33	29	38
Index		31	0	31	0	0	0
Luminex Tech. - Bio-Rad Bioplex 2200		31	0	31	0	0	0

Other ...

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
Other ...		5	0	5	16	0	80
Other ...		5	0	5	16	0	80

Please note: The statistical figures in the tables above are trimmed

Centromere Responses Sample 184-2

Distribution : **184**

July 2018

Participant : **94317**

Your Results	
Positive : False	Unit : IU/ml
Negative : True	Method : Enzyme Immunoassay/ELISA
Quantitative : 0.4	Manufacturer : Phadia 250 EliA
	Substrate : Not Applicable

INDIRECT IMMUNOFLUORESCENCE

SUBSTRATE	Returns	Positive	Negative	Mean	Observed Ranges	
Rat Tissue	1	0	1	0		
Euroimmun	1	0	1	0		
Hep2	149	0	149	82	0	160
A. Menarini - Zenit EIA	5	0	5	106	0	160
AESKU	5	0	5	80	80	80
Alpha Dia	1	0	1	0		
BioDiagnostics	4	0	4	0		
Bio-Rad/Kallestad/Sanofi	21	0	21	100	80	160
Biosystems	4	0	4	0		
Diamedix	1	0	1	0		
Euroimmun	29	0	29	31	0	80
Immunoconcepts	6	0	6	106	80	160
Inova	63	0	63	84	0	160
Luminex Tech. - THERADIAG (BMD)	1	0	1	0		
MBL- BION	2	0	2	80	80	80
Medica	2	0	2	0		
ORGenTec	1	0	1	0		
Other ...	1	0	1	80	80	80
Trinity Biotech (Immco)	3	0	3	160	160	160
Hep2000	13	1	12	70	40	80
Immunoconcepts	13	1	12	70	40	80
Other ...	1	0	1	320	320	320
Euroimmun	1	0	1	320	320	320

Please note: The statistical figures in the tables above are trimmed

Centromere Responses Sample 184-2

Distribution : 184

July 2018

Participant : 94317

ENZYME IMMUNOASSAY

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		131	1	130	0	0 9
A. Menarini - Zenit EIA		1	1	0	0	0 0
AESKU		3	0	3	1	0 1
Axis Shield/Diastat		1	0	1	0	0 0
Euroimmun		1	0	1	2	2 2
Inova		3	0	3	6	2 9
ORGenTec		7	0	7	0	0 1
Other ...		2	0	2	0	0 1
Phadia 100 EliA		6	0	6	0	0 1
Phadia 250 EliA		107	0	107	0	0 2
Units/ml		37	0	37	0	0 1
Dr Fooke		1	0	1	0	0 0
Phadia 100 EliA		1	0	1	0	0 0
Phadia 1000/2500 EliA		6	0	6	0	0 1
Phadia 250 EliA		29	0	29	0	0 1
Ratio		3	1	2	14	0 41
ORGenTec		1	0	1	0	0 0
Other ...		2	1	1	20	0 41

Please note: The statistical figures in the tables above are trimmed

Centromere Responses Sample 184-2

Distribution : 184

July 2018

Participant : 94317

Chemiluminescence

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		23	1	22	1	0 10
A. Menarini - Zenit RA		8	1	7	0	0 0
Inova QUANTA Flash		15	0	15	3	1 10

Immunoblotting

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
N/A		39	1	38	26	0 160
AESKU		3	1	2		
Alpha Dia		2	0	2	0	0 0
D-tek		5	0	5		
Euroimmun		24	0	24	40	0 160
Generic Assays		1	0	1		
MIKROGEN DIAGNOSTIK		1	0	1		
Other ...		3	0	3	0	0 0

Line Immunoassay/LIA

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
N/A		3	0	3	80	80 80
Innogenetics		2	0	2	80	80 80
Other ...		1	0	1		

Luminex Technology

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		10	0	10	7	0 33
Luminex Tech. - Bio-Rad Bioplex 2200		3	0	3	0	0 0
Luminex Tech. - THERADIAG (BMD)		5	0	5	0	0 1
ZEUS		2	0	2	27	22 33
Index		32	0	32	0	0 0
Luminex Tech. - Bio-Rad Bioplex 2200		32	0	32	0	0 0

Other ...

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
Other ...		5	0	5	16	0 80
D-tek		1	0	1	0	0 0
Other ...		4	0	4	20	0 80

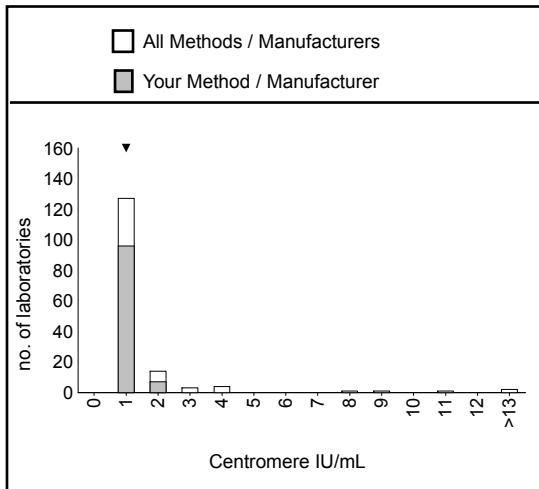
Please note: The statistical figures in the tables above are trimmed

Centromere Responses Sample 184-2

Distribution : 184

July 2018

Participant : 94317



Your Method: Enzyme Immunoassay/ELISA

Your Manufacturer: Phadia 250 EliA

Your Result: 0.4

Your Unit: IU/ml

ENA Responses Sample 184-1

Distribution : 184

July 2018

Participant : 94317

Your Results

SSA: True	Sm: True	Other: False
SSA Method: Enzyme Immunoassay/ELISA	SM Method: Enzyme Immunoassay/ELISA	Other Method:
SSA Manufacturer: Phadia 1000/2500 EliA	SM Manufacturer: Phadia 1000/2500 EliA	Other Manufacturer:
SSB: False	Sci-70: False	Negative: False
SSB Method: Enzyme Immunoassay/ELISA	Sci-70 Method: Enzyme Immunoassay/ELISA	Negative Method: Enzyme Immunoassay/ELISA
SSB Manufacturer: Phadia 1000/2500 EliA	Sci-70 Manufacturer: Phadia 1000/2500 EliA	Negative Manufacturer: Phadia 1000/2500 EliA
RNP: True	Jo1: False	Screen Only: False
RNP Method: Enzyme Immunoassay/ELISA	Jo1 Method: Enzyme Immunoassay/ELISA	Screen Positive: False
RNP Manufacturer: Phadia 1000/2500 EliA	Jo1 Manufacturer: Phadia 1000/2500 EliA	Manufacturer:

Method	Ro (SSA)	La (SSB)	Sm	RNP	Sci-70	Jo-1	Other	Positive (Screen Only)	Negative
Chemiluminescence	46	0	46	45	1	0	2	0	0
A. Menarini - Zenit RA	22	0	21	20	1	0	0	0	0
Inova QUANTA Flash	24	0	25	25	0	0	2	0	0
CIE	1	0	1	0	0	0	0	0	0
In House	1	0	1	0	0	0	0	0	0
DD	1	1	0	0	0	0	0	0	0
In House	1	1	0	0	0	0	0	0	0
ENA Screening Tests								54	0
A. Menarini - Zenit RA								4	0
Bio-Rad/Kallestad/Sanofi								1	0
Diasorin								4	0
Euroimmun								1	0
Immunoconcepts								2	0
Inova QUANTA Flash								10	0
Luminex Tech. - Bio-Rad Bioplex 2200								1	0
ORGenTec								1	0
ORGenTec Alegria								2	0
Phadia 1000/2500 EliA								1	0
Phadia 250 EliA								24	0
Phadia 250 EliA (CTD)								3	0
Enzyme Immunoassay/ELISA	241	3	224	218	0	0	10	0	1
AESKU	3	0	3	2	0	0	0	0	0
Alpha Dia	0	0	0	0	0	0	1	0	0
Bio-Rad/Kallestad/Sanofi	1	0	1	1	0	0	0	0	0
Biosystems	1	0	0	0	0	0	0	0	0
Dr Fooke	1	0	1	1	0	0	0	0	0
Euroimmun	8	0	5	7	0	0	1	0	0
Hycor Biomedical	3	0	3	3	0	0	0	0	0
Immunoconcepts	2	0	2	2	0	0	0	0	0
Inova	11	1	13	12	0	0	1	0	0
ORGenTec	21	0	20	19	0	0	1	0	0
ORGenTec Alegria	9	0	7	6	0	0	1	0	0
Other ...	5	0	5	3	0	0	0	0	0
Phadia 100 EliA	6	0	6	6	0	0	0	0	0
Phadia 1000/2500 EliA	7	0	7	6	0	0	1	0	0
Phadia 250 EliA	163	2	151	150	0	0	4	0	1

Please note: The statistical figures in the tables above are trimmed

ENA Responses Sample 184-1

Distribution : 184	July 2018	Participant : 94317
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Method	Ro (SSA)	La (SSB)	Sm	RNP	Sci-70	Jo-1	Other	Positive (Screen Only)	Negative
Immunoblotting	99	3	98	83	0	0	31	0	0
AESKU	4	1	2	1	0	0	2	0	0
Alpha Dia	15	0	12	13	0	0	1	0	0
D-tek	5	0	5	5	0	0	1	0	0
Euroimmun	71	1	75	62	0	0	25	0	0
MIKROGEN DIAGNOSTIK	2	1	3	0	0	0	1	0	0
Other ...	2	0	1	2	0	0	1	0	0
Line Immunoassay/LIA	6	0	5	5	0	0	5	0	0
Human-Imtec	3	0	2	2	0	0	2	0	0
Innogenetics	2	0	2	2	0	0	1	0	0
Other ...	1	0	1	1	0	0	2	0	0
Luminex Technology	49	0	50	34	0	0	14	0	3
Luminex Tech. - Bio-Rad Bioplex 2200	39	0	40	26	0	0	9	0	3
Luminex Tech. - THERADIAG (BMD)	7	0	7	6	0	0	4	0	0
ZEUS	3	0	3	2	0	0	1	0	0
Other ...	3	0	2	2	0	0	1	0	0
In House	1	0	1	1	0	0	0	0	0
Other ...	2	0	1	1	0	0	1	0	0

Please note: The statistical figures in the tables above are trimmed

ENA Responses Sample 184-2

Distribution : 184

July 2018

Participant : 94317

Your Results

SSA: True	Sm: False	Other: False
SSA Method: Enzyme Immunoassay/ELISA	SM Method: Enzyme Immunoassay/ELISA	Other Method:
SSA Manufacturer: Phadia 1000/2500 EliA	SM Manufacturer: Phadia 1000/2500 EliA	Other Manufacturer:
SSB: True	Sci-70: False	Negative: False
SSB Method: Enzyme Immunoassay/ELISA	Sci-70 Method: Enzyme Immunoassay/ELISA	Negative Method: Enzyme Immunoassay/ELISA
SSB Manufacturer: Phadia 1000/2500 EliA	Sci-70 Manufacturer: Phadia 1000/2500 EliA	Negative Manufacturer: Phadia 1000/2500 EliA
RNP: False	Jo1: False	Screen Only: False
RNP Method: Enzyme Immunoassay/ELISA	Jo1 Method: Enzyme Immunoassay/ELISA	Screen Positive: False
RNP Manufacturer: Phadia 1000/2500 EliA	Jo1 Manufacturer: Phadia 1000/2500 EliA	Manufacturer:

Method	Ro (SSA)	La (SSB)	Sm	RNP	Sci-70	Jo-1	Other	Positive (Screen Only)	Negative
Chemiluminescence	50	49	0	0	0	0	5	0	0
A. Menarini - Zenit RA	23	22	0	0	0	0	1	0	0
Inova QUANTA Flash	27	27	0	0	0	0	4	0	0
CIE	1	1	0	0	0	0	0	0	0
In House	1	1	0	0	0	0	0	0	0
DD	1	0	0	0	0	0	0	0	0
In House	1	0	0	0	0	0	0	0	0
ENA Screening Tests								49	1
A. Menarini - Zenit RA								3	0
Bio-Rad/Kallestad/Sanofi								1	0
Diasorin								4	0
Euroimmun								1	0
Immunoconcepts								1	0
Inova QUANTA Flash								8	1
Luminex Tech. - Bio-Rad Bioplex 2200								1	0
ORGenTec								1	0
ORGenTec Alegria								2	0
Phadia 1000/2500 EliA								1	0
Phadia 250 EliA								24	0
Phadia 250 EliA (CTD)								2	0
Enzyme Immunoassay/ELISA	243	242	3	2	0	0	2	0	0
AESKU	3	3	0	0	0	0	0	0	0
Alpha Dia	0	0	0	0	0	0	1	0	0
Bio-Rad/Kallestad/Sanofi	1	1	0	0	0	0	0	0	0
Dr Fooke	1	1	0	0	0	0	0	0	0
Euroimmun	8	8	0	0	0	0	0	0	0
Hycor Biomedical	3	3	0	0	0	0	0	0	0
Immunoconcepts	2	2	0	0	0	0	0	0	0
Inova	12	12	0	0	0	0	0	0	0
ORGenTec	21	21	0	0	0	0	0	0	0
ORGenTec Alegria	9	9	0	0	0	0	0	0	0
Other ...	6	6	0	0	0	0	0	0	0
Phadia 100 EliA	6	6	0	0	0	0	0	0	0
Phadia 1000/2500 EliA	7	7	0	0	0	0	0	0	0
Phadia 250 EliA	164	163	3	2	0	0	1	0	0

Please note: The statistical figures in the tables above are trimmed

ENA Responses Sample 184-2

Distribution : 184	July 2018	Participant : 94317
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Method	Ro (SSA)	La (SSB)	Sm	RNP	Sci-70	Jo-1	Other	Positive (Screen Only)	Negative
Immunoblotting	104	104	0	0	0	0	5	0	1
AESKU	3	3	0	0	0	0	0	0	1
Alpha Dia	15	15	0	0	0	0	0	0	0
D-tek	6	6	0	0	0	0	0	0	0
Euroimmun	74	74	0	0	0	0	5	0	0
Inno-LIA	1	1	0	0	0	0	0	0	0
MIKROGEN DIAGNOSTIK	3	3	0	0	0	0	0	0	0
Other ...	2	2	0	0	0	0	0	0	0
Line Immunoassay/LIA	7	7	0	0	0	0	0	0	0
Human-Imtec	3	3	0	0	0	0	0	0	0
Innogenetics	3	3	0	0	0	0	0	0	0
Other ...	1	1	0	0	0	0	0	0	0
Luminex Technology	52	52	0	0	0	0	5	0	2
Luminex Tech. - Bio-Rad Bioplex 2200	42	42	0	0	0	0	2	0	2
Luminex Tech. - THERADIAG (BMD)	7	7	0	0	0	0	3	0	0
ZEUS	3	3	0	0	0	0	0	0	0
Other ...	3	3	0	0	0	0	0	0	0
In House	1	1	0	0	0	0	0	0	0
Other ...	2	2	0	0	0	0	0	0	0

Please note: The statistical figures in the tables above are trimmed