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UK NEQAS for Antibodies to Nuclear and Related Antigens

Distribution :	182	March 2018	Participant :	94317
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657 out of 728 participants returned data for this distribution. 90% response rate.

Nil Responses

1540, 4635, 10066, 10272A, 10665A, 10674A, 11690, 12081, 12185, 12187, 12204, 12208A, 12266, 13923, 13953A, 14558A, 14575, 14579, 14605, 14620, 14638, 14668, 14680C, 14680B, 14857, 14873, 14888, 15099, 90604, 91435, 91518, 91666, 91723A, 91835, 91896, 91976, 92342, 92447, 92456, 92457, 92464, 92464A, 92601A, 92601B, 92700, 93011A, 93682, 93740, 94346, 94356, 94357, 94358, 94484, 94510, 94735, 94736, 94931, 95042, 95108, ANAND, ORG_G, ORG_A, KRIT, ORG, BIOG, INFO, CODEX, TVN, SEQC, VAR, DEKS

Sample 182-1 was a serum from a donor with SLE.

Sample 182-2 was a serum from a 48 year old female donor with scleroderma.

Sample	Analyte	Target Response	Your Response	Score
182-1	ANA (nuclear, cytoplasmic, mitotic)	Positive	Positive	0
	dsDNA	Negative	Negative	0
	Centromere	Negative	Negative	0
	ENA	RNP	RNP	0

Sample	Analyte	Target Response	Your Response	Score	OMIS
182-2	ANA (nuclear, cytoplasmic, mitotic)	Equivocal	Positive	0	0
	dsDNA	Negative	Negative	0	0
	Centromere	Negative	Negative	0	0
	ENA	ScI-70	ScI-70	0	0
				Total MIS	0

The current window of analysis comprises the previous six distributions.

Comments

Sample 182-1

Designated Response

RNP

Optional Response

Sm

The detection of the Sm antibodies may be dependent on the antigen used within the assay.

Sample 182-2

The ANA element of the sample has been set to equivocal as consensus was not met. Only 274/458 (60%) of HEp 2/2000 users and 27/95 (28%) of ELISA methods reported a positive ANA as expected. Many laboratories commented that the staining pattern was quite weak.

The majority of laboratories have detected the presence of ScI-70 antibodies, however, 123 participants reported negative for ENA and 33 fewer participants went on to test for the ScI-70 antibody compared to sample 182-1.

The ANA and ENA screen elements of the scheme have demonstrated variation in sensitivity across different methods and manufacturers for this sample, which may have resulted in some laboratories not performing ENA types following a negative ENA screen. Participants using the ENA screen methods should assure themselves that their assay validation is appropriate for antibodies such as ScI-70.

The discrepancies between the different testing methods have been noted by some laboratories.

Director Prof W Egner / Mrs D Patel, Operations Manager Mr D Gill / Dr H Wilkinson

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Sheffield Teaching Hospitals

NHS Foundation Trust

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 182-1

Distribution : 182

March 2018

Participant : 94317

	Sample 182-1		
	Returns	Positive	Negative
Analyte			
ANA (nuclear, cytoplasmic, mitotic)	584	579	3
dsDNA	607	2	605
Centromere	440	2	438

Extractable Nuclear Antigens	
RNP	282
Sm	3
Scl-70	2
RNP/Sm	158
RNP/Scl-70	2
RNP/Sm/Jo-1	3
La/RNP/Sm/Jo-1	1
Screen Only Positive	66
Negative	7
Total Responses	524
Correct Response	97 %

HEp2 Cell Pattern Source	HEp2 Cell Pattern Category (ICAP)	Count
Nuclear	Homogeneous (AC-1)	7
Nuclear	Centromere (AC-3)	2
Nuclear	Discrete nuclear dots (AC-6, AC-7)	1
Nuclear	Nucleolar (AC-8, AC-9, AC-10)	1
Nuclear	Speckled (AC-2, AC-4, AC-5, AC-29)	431
Nuclear	Dense fine speckled (AC-2)	5
Nuclear	Fine speckled (AC-4)	38
Nuclear	Large/coarse speckled (AC-5)	157
Nuclear	Few nuclear dots (AC-7)	1
Cytoplasmic	Speckled (AC-18, AC-19, AC-20)	14
Cytoplasmic	Discrete dots (AC-18)	3
Cytoplasmic	Fine speckled (AC-20)	2
Other		5
Negative	Negative (AC-0)	1

Summary Page for Sample 182-2

Distribution : 182	March 2018	Participant : 94317
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	Sample 182-2		
	Returns	Positive	Negative
Analyte			
ANA (nuclear, cytoplasmic, mitotic)	580	315	265
dsDNA	604	3	601
Centromere	421	2	417

Extractable Nuclear Antigens	
Scl-70	333
Ro/Scl-70	1
RNP/Sm	2
RNP/Scl-70	2
RNP/Jo-1	1
RNP/Sm/Scl-70/Jo-1	1
Screen Only Positive	33
Negative	123
Total Responses	496
Correct Response	74%

HEp2 Cell Pattern Source	HEp2 Cell Pattern Category (ICAP)	Count
Nuclear	Homogeneous (AC-1)	109
Nuclear	Discrete nuclear dots (AC-6, AC-7)	2
Nuclear	Nucleolar (AC-8, AC-9, AC-10)	45
Nuclear	Speckled (AC-2, AC-4, AC-5, AC-29)	124
Nuclear	Dense fine speckled (AC-2)	10
Nuclear	Fine speckled (AC-4)	37
Nuclear	Large/coarse speckled (AC-5)	2
Nuclear	Few nuclear dots (AC-7)	1
Nuclear	Homogeneous nucleolar (AC-8)	8
Nuclear	Large/coarse speckled (AC-10)	3
Cytoplasmic	Speckled (AC-18, AC-19, AC-20)	3
Mitotic	Mitotic chromosomal envelope (AC-28)	2
Other		21
Negative	Negative (AC-0)	56

ANA (nuclear, cytoplasmic, mitotic) Responses Sample 182-1

Distribution : 182	March 2018	Participant : 94317
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Your Results	
Positive : True	Unit : Titre
Negative : False	Method : Indirect Immunofluorescence
Quantitative : 2560	Manufacturer : Binding Site
	Substrate : Hep2

INDIRECT IMMUNOFLUORESCENCE

SUBSTRATE	Returns	Positive	Negative	Mean	Observed Ranges	
Rat Tissue	4	3	0	5120	5120	5120
Euroimmun	4	3	0	5120	5120	5120
Hep2	419	417	1	2609	3	51200
A. Menarini - Zenit EIA	12	12	0	1536	640	2560
AESKU	27	27	0	3552	80	10240
Alpha Dia	1	1	0	640	640	640
Binding Site	1	1	0	2560	2560	2560
BioDiagnostics	9	9	0	1280	640	2560
Bio-Rad/Kallestad/Sanofi	54	54	0	1752	80	10000
Biosystems	14	13	0	974	80	2560
Diamedix	1	1	0	0		
Diasorin	5	5	0	3840	2560	5120
Euroimmun	91	91	0	3383	3	51200
Generic Assays	1	1	0	10240	10240	10240
Immco	10	10	0	2860	160	10000
Immunoconcepts	21	21	0	2415	80	10240
In House	1	1	0	10240	10240	10240
Inova	157	156	1	2421	40	12800
MBL- BION	2	2	0	0		
Medica	2	2	0	2560	2560	2560
ORGenTec	1	1	0	0		
Other ...	6	6	0	1536	320	5120
THERADIAG (BMD)	2	2	0	2560	2560	2560
ZEUS	1	1	0	0		
Hep2000	43	43	0	1990	80	10240
Immunoconcepts	43	43	0	1990	80	10240
Other ...	3	2	1	240	160	320
Euroimmun	2	2	0	240	160	320
Other ...	1	0	1	0		

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

ANA (nuclear, cytoplasmic, mitotic) Responses Sample 182-1

Distribution : 182	March 2018	Participant : 94317
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ENZYME IMMUNOASSAY

UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml	18	18	0	150	6	300
A. Menarini - Zenit EIA	1	1	0	231	231	231
Genesis	1	1	0	100	100	100
Hycor Biomedical	5	5	0	300	300	300
Inova	9	9	0	128	12	194
ORGenTec	1	1	0	6	6	6
Other ...	1	1	0	148	148	148
Units/ml	1	1	0	6	6	6
Dr Fooke	1	1	0	6	6	6
Ratio	72	71	1	42	5	1561
Diasorin	1	1	0	15	15	15
Euroimmun	1	1	0	8	8	8
Inova	1	1	0	6	6	6
ORGenTec	2	2	0	5	5	5
Other ...	2	2	0	8	8	9
Phadia 100 EliA	2	2	0	32	32	32
Phadia 1000/2500 EliA (CTD)	3	3	0	18	14	21
Phadia 250 EliA	18	17	1	28	8	73
Phadia 250 EliA (CTD)	41	41	0	56	13	1561
Phadia Varelisa	1	1	0	32	32	32
Other ...	2	2	0	137	14	260
Palex Diagnostica	2	2	0	137	14	260
Index	3	3	0	5	3	9
AESKU	3	3	0	5	3	9

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	2	2	0	11	10	11
A. Menarini - Zenit RA	2	2	0	11	10	11

Luminex Technology

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

Other ...

UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml	1	1	0	49	49	49
Other ...	1	1	0	49	49	49
Other ...	1	1	0	21	21	21
Other ...	1	1	0	21	21	21

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

ANA (nuclear, cytoplasmic, mitotic) Responses Sample 182-2

Distribution : 182	March 2018	Participant : 94317
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Your Results	
Positive : True	Unit : Titre
Negative : False	Method : Indirect Immunofluorescence
Quantitative : 160	Manufacturer : Binding Site
	Substrate : Hep2

INDIRECT IMMUNOFLUORESCENCE

SUBSTRATE	Returns	Positive	Negative	Mean	Observed Ranges	
Rat Tissue	4	0	4	40	40	40
Euroimmun	4	0	4	40	40	40
Hep2	416	247	169	158	0	1280
A. Menarini - Zenit EIA	12	5	7	266	160	640
AESKU	27	6	21	76	0	160
Alpha Dia	1	0	1	0		
Binding Site	1	1	0	160	160	160
BioDiagnostics	9	3	6	93	40	160
Bio-Rad/Kallestad/Sanofi	54	34	20	156	0	640
Biosystems	14	5	9	176	0	1280
Diamedix	1	1	0	160	160	160
Diasorin	5	2	3	40	40	40
Euroimmun	89	60	29	164	0	1280
Generic Assays	1	0	1	0	0	0
Immco	10	7	3	170	40	320
Immunoconcepts	22	7	15	98	0	320
In House	1	1	0	80	80	80
Inova	156	111	45	168	0	1280
MBL- BION	2	0	2	0		
Medica	2	1	1	160	160	160
ORGenTec	1	0	1	0		
Other ...	5	2	3	120	80	160
THERADIAG (BMD)	2	0	2	80	80	80
ZEUS	1	1	0	160	160	160
Hep2000	42	27	15	169	10	1280
Immunoconcepts	42	27	15	169	10	1280
Other ...	4	0	4	210	100	320
Euroimmun	3	0	3	210	100	320
Other ...	1	0	1	0		

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

ANA (nuclear, cytoplasmic, mitotic) Responses Sample 182-2

Distribution : 182	March 2018	Participant : 94317
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ENZYME IMMUNOASSAY

UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml	19	15	4	76	0	134
A. Menarini - Zenit EIA	1	1	0	30	30	30
Genesis	1	1	0	14	14	14
Hycor Biomedical	5	5	0	123	108	134
Inova	9	7	2	85	0	133
ORGenTec	1	1	0	4	4	4
Other ...	1	0	1	19	19	19
Phadia 250 EliA	1	0	1	0	0	0
Units/ml	1	0	1	0	0	0
Dr Fooke	1	0	1	0	0	0
Ratio	70	9	61	0	0	5
Diasorin	1	0	1	1	1	1
Euroimmun	1	1	0	5	5	5
Inova	1	1	0	4	4	4
ORGenTec	2	2	0	3	3	3
Other ...	1	1	0	2	2	2
Phadia 100 EliA	2	0	2	0	0	0
Phadia 1000/2500 EliA (CTD)	3	0	3	0	0	0
Phadia 250 EliA	18	1	17	0	0	0
Phadia 250 EliA (CTD)	40	3	37	0	0	1
Phadia Varelisa	1	0	1	0	0	0
Other ...	2	2	0	1	1	1
Palex Diagnostica	2	2	0	1	1	1
Index	3	1	2	1	0	1
AESKU	3	1	2	1	0	1

Chemiluminescence

UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
Units/ml	4	0	4	13	8	16
Inova QUANTA Flash	4	0	4	13	8	16
Index	2	2	0	3	3	3
A. Menarini - Zenit RA	2	2	0	3	3	3

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	5	5	5
Other ...	1	1	0	5	5	5
Other ...	1	0	1	0	0	0
Other ...	1	0	1	0	0	0

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

dsDNA Responses Sample 182-1

Distribution : 182

March 2018

Participant : 94317

Your Results	
Positive : False	Unit : IU/ml
Negative : True	Method : Enzyme Immunoassay/ELISA
Quantitative : 0.9	Manufacturer : Phadia 1000/2500 EliA
	Substrate : Not Applicable

INDIRECT IMMUNOFLUORESCENCE

SUBSTRATE	Returns	Positive	Negative	Mean	Observed Ranges	
Hep2	1	1	0	0		
Other ...	1	1	0	0		
Crithidia Lucillae	155	1	154	11	0	50
A. Menarini - Zenit EIA	6	0	6	20	20	20
Alpha Dia	1	0	1	0		
BioDiagnostics	4	0	4	10	10	10
Bio-Rad/Kallestad/Sanofi	21	0	21	10	10	10
Biosystems	10	0	10	10	10	10
Diasorin	1	0	1	0		
Euroimmun	29	0	29	13	0	50
Immco	2	0	2	10	10	10
Immunoconcepts	20	1	19	15	10	40
In House	2	0	2	0		
Inova	50	0	50	9	0	20
ORGenTec	2	0	2	0		
Other ...	5	0	5	10	0	20
Palex Diagnostica	1	0	1	0		
SCIMEDX	1	0	1	0		

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

dsDNA Responses Sample 182-1

Distribution : 182

March 2018

Participant : 94317

ENZYME IMMUNOASSAY

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml		335	0	335	4	0	72
AESKU		4	0	4	3	2	4
Axis Shield/Diastat		4	0	4	6	3	11
Bio-Rad/Kallestad/Sanofi		4	0	4	8	2	19
Diasorin		3	0	3	7	6	9
Diesse		2	0	2	28	28	28
Euro Diagnostica		4	0	4	2	1	4
Euroimmun		14	0	14	14	6	26
Generic Assays		1	0	1	18	18	18
Genesis		2	0	2	11	9	13
Hycor Biomedical		7	0	7	11	2	15
Inova		16	0	16	42	4	72
Luminex Tech. - THERADIAG (BMD)		1	0	1	27	27	27
ORGenTec		24	0	24	10	0	19
ORGenTec Alegria		12	0	12	5	0	11
Other ...		4	0	4	3	0	9
Phadia 100 EliA		7	0	7	1	1	2
Phadia 1000/2500 EliA		11	0	11	1	0	2
Phadia 250 EliA		212	0	212	1	0	2
Phadia Varelisa		3	0	3	0	0	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 182-1

Distribution : 182

March 2018

Participant : 94317

Chemiluminescence

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		58	0	58	5	0 16
A. Menarini - Zenit RA		25	0	25	2	0 16
Inova QUANTA Flash		33	0	33	9	6 11

Immunoblotting

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
Other ...		2	0	2		
Other ...		2	0	2		

Luminex Technology

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		35	0	35	3	0 73
Luminex Tech. - Bio-Rad Bioplex 2200		31	0	31	1	1 3
Luminex Tech. - THERADIAG (BMD)		3	0	3	2	0 4
ZEUS		1	0	1	73	73 73

Other ...

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		2	0	2	8	7 9
Other ...		2	0	2	8	7 9
Other ...		5	0	5	0	0 1
Other ...		5	0	5	0	0 1

Radioimmunoassay(RIA)

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		12	0	12	2	0 6
IBL INTERNATIONAL		6	0	6	1	0 3
Immulite-SMS Diag. Ltd		1	0	1	1	1 1
Trinity Biotech		5	0	5	5	4 6
Other ...		1	0	1		
Other ...		1	0	1		

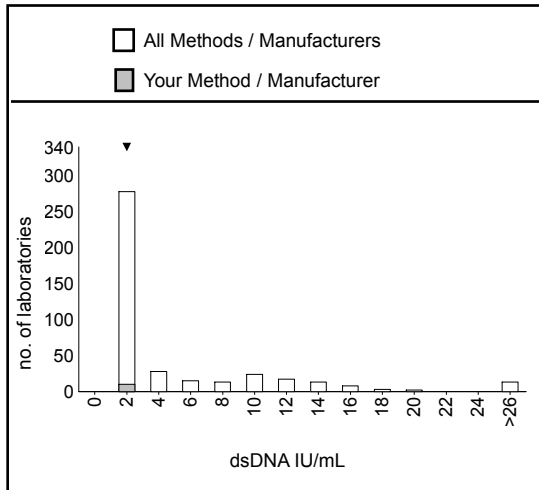
Please note: The statistical figures in the tables above are trimmed

dsDNA Responses Sample 182-1

Distribution : 182

March 2018

Participant : 94317



Your Method: Enzyme Immunoassay/ELISA

Your Manufacturer: Phadia 1000/2500 EliA

Your Result: 0.9

Your Unit: IU/ml

dsDNA Responses Sample 182-2

Distribution : 182

March 2018

Participant : 94317

Your Results	
Positive : False	Unit : IU/ml
Negative : True	Method : Enzyme Immunoassay/ELISA
Quantitative : 1.2	Manufacturer : Phadia 1000/2500 EliA
	Substrate : Not Applicable

INDIRECT IMMUNOFLUORESCENCE

SUBSTRATE	Returns	Positive	Negative	Mean	Observed Ranges	
Hep2	1	1	0	0		
Other ...	1	1	0	0		
Crithidia Lucillae	155	0	155	10	0	50
A. Menarini - Zenit EIA	5	0	5	20	20	20
Alpha Dia	1	0	1	0		
BioDiagnostics	4	0	4	10	10	10
Bio-Rad/Kallestad/Sanofi	21	0	21	10	10	10
Biosystems	10	0	10	10	10	10
Diasorin	1	0	1	0		
Euroimmun	29	0	29	13	0	50
Immco	2	0	2	10	10	10
Immunoconcepts	20	0	20	11	10	20
In House	2	0	2	0		
Inova	51	0	51	8	0	20
ORGenTec	2	0	2	0		
Other ...	5	0	5	0	0	0
Palex Diagnostica	1	0	1	0		
SCIMEDX	1	0	1	0		

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

dsDNA Responses Sample 182-2

Distribution : 182

March 2018

Participant : 94317

ENZYME IMMUNOASSAY

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml		331	2	329	4	0	105
AESKU		4	0	4	2	1	3
Axis Shield/Diastat		4	0	4	5	2	10
Bio-Rad/Kallestad/Sanofi		4	0	4	5	1	7
Diasorin		3	0	3	4	1	7
Diesse		2	0	2	15	15	15
Euro Diagnostica		4	0	4	4	0	7
Euroimmun		14	1	13	20	0	105
Generic Assays		1	0	1	12	12	12
Genesis		2	0	2	10	10	11
Hycor Biomedical		7	0	7	10	1	20
Inova		16	0	16	50	4	90
Luminex Tech. - THERADIAG (BMD)		1	0	1	17	17	17
ORGenTec		23	0	23	7	0	16
ORGenTec Alegria		12	0	12	4	0	7
Other ...		4	0	4	3	0	10
Phadia 100 EliA		7	0	7	1	1	2
Phadia 1000/2500 EliA		11	0	11	1	1	1
Phadia 250 EliA		208	1	207	1	0	3
Phadia 250 EliA (CTD)		1	0	1	1	1	1
Phadia Varelisa		3	0	3	0	0	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 182-2

Distribution : 182

March 2018

Participant : 94317

Chemiluminescence

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		57	0	57	5	0 17
A. Menarini - Zenit RA		25	0	25	1	0 12
Inova QUANTA Flash		32	0	32	9	4 17
N/A		1	0	1		
Inova QUANTA Flash		1	0	1		

Immunoblotting

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
Other ...		2	0	2		
Other ...		2	0	2		

Luminex Technology

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		35	0	35	2	0 40
Luminex Tech. - Bio-Rad Bioplex 2200		31	0	31	0	0 1
Luminex Tech. - THERADIAG (BMD)		3	0	3	1	0 2
ZEUS		1	0	1	40	40 40

Other ...

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

Radioimmunoassay(RIA)

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		12	0	12	2	0 5
IBL INTERNATIONAL		6	0	6	1	0 2
Immulite-SMS Diag. Ltd		1	0	1	2	2 2
Trinity Biotech		5	0	5	4	4 5
Other ...		1	0	1		
Other ...		1	0	1		

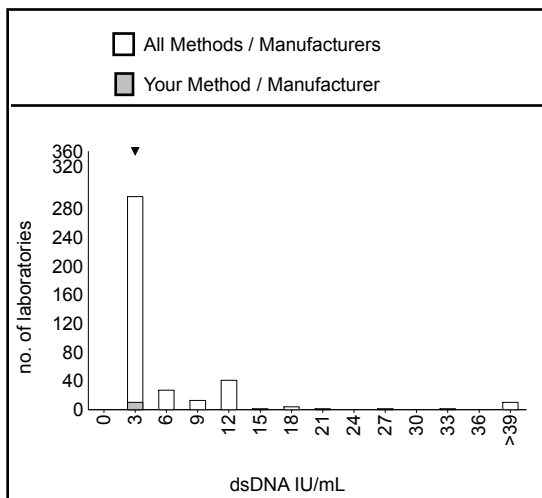
Please note: The statistical figures in the tables above are trimmed

dsDNA Responses Sample 182-2

Distribution : 182

March 2018

Participant : 94317



Your Method: Enzyme Immunoassay/ELISA

Your Manufacturer: Phadia 1000/2500 EliA

Your Result: 1.2

Your Unit: IU/ml

Centromere Responses Sample 182-1

Distribution : **182**

March 2018

Participant : **94317**

Your Results	
Positive : False	Unit : IU/ml
Negative : True	Method : Enzyme Immunoassay/ELISA
Quantitative : 0.3	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	156	0	156	84	0	160
A. Menarini - Zenit EIA	3	0	3	160	160	160
AESKU	7	0	7	80	80	80
Alpha Dia	1	0	1	0		
BioDiagnostics	3	0	3	0		
Bio-Rad/Kallestad/Sanofi	22	0	22	91	40	160
Biosystems	4	0	4	0	0	0
Diamedix	1	0	1	0		
Euroimmun	34	0	34	60	0	160
Immco	6	0	6	160	160	160
Immunoconcepts	6	0	6	66	40	80
Inova	62	0	62	87	0	160
MBL- BION	1	0	1	0		
Medica	2	0	2	160	160	160
ORGenTec	2	0	2	0		
Other ...	1	0	1	80	80	80
ZEUS	1	0	1	0		
Hep2000	12	1	11	70	40	80
Immunoconcepts	12	1	11	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 182-1

Distribution : 182

March 2018

Participant : 94317

ENZYME IMMUNOASSAY

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		124	0	124	0	0 11
AESKU		2	0	2	2	2 3
Axis Shield/Diastat		1	0	1	0	0 0
Euroimmun		1	0	1	2	2 2
Inova		4	0	4	4	1 11
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		101	0	101	0	0 1
Units/ml		38	0	38	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	1	0 1
Phadia 250 EliA		30	0	30	0	0 1
Ratio		3	0	3	0	0 1
ORGenTec		1	0	1	1	1 1
Other ...		2	0	2	0	0 0

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

Centromere Responses Sample 182-1

Distribution : 182

March 2018

Participant : 94317

Chemiluminescence

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml		22	1	21	1	0	4
A. Menarini - Zenit RA		8	0	8	0	0	0
Inova QUANTA Flash		14	1	13	2	0	4

Immunoblotting

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
N/A		34	0	34	0	0	0
AESKU		3	0	3			
Alpha Dia		1	0	1			
D-tek		4	0	4			
Euroimmun		21	0	21	0	0	0
Generic Assays		1	0	1			
Other ...		4	0	4	0	0	0

Line Immunoassay/LIA

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
N/A		4	0	4	80	80	80
Innogenetics		1	0	1	80	80	80
Other ...		3	0	3			

Luminex Technology

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml		11	0	11	5	0	29
Luminex Tech. - Bio-Rad Bioplex 2200		3	0	3	0	0	0
Luminex Tech. - THERADIAG (BMD)		6	0	6	0	0	1
ZEUS		2	0	2	24	20	29
Index		30	0	30	0	0	0
Luminex Tech. - Bio-Rad Bioplex 2200		30	0	30	0	0	0

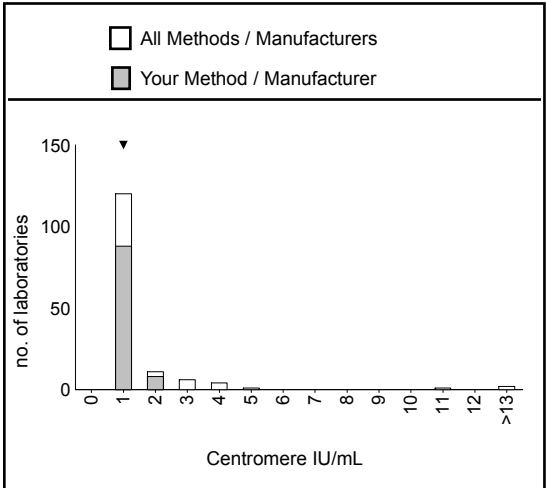
Other ...

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
Other ...		4	0	4	0	0	0
Other ...		4	0	4	0	0	0

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

Centromere Responses Sample 182-1

Distribution :	182	March 2018	Participant :	94317
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Your Method: Enzyme Immunoassay/ELISA
Your Manufacturer: Phadia 250 ELIA
Your Result: 0.3
Your Unit: IU/ml

Centromere Responses Sample 182-2

Distribution : **182**

March 2018

Participant : **94317**

Your Results	
Positive : False	Unit : IU/ml
Negative : True	Method : Enzyme Immunoassay/ELISA
Quantitative : 0.3	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	0	150	83	0	160
A. Menarini - Zenit EIA	4	0	4	160	160	160
AESKU	7	0	6	80	80	80
Alpha Dia	1	0	1	0		
BioDiagnostics	3	0	3	0		
Bio-Rad/Kallestad/Sanofi	22	0	22	100	80	160
Biosystems	4	0	4	0	0	0
Diamedix	1	0	1	0		
Euroimmun	32	0	31	41	0	160
Immco	6	0	6	160	160	160
Immunoconcepts	6	0	6	70	40	80
Inova	61	0	61	87	0	160
MBL- BION	1	0	1	0		
Medica	2	0	2	160	160	160
ORGenTec	2	0	2	0		
Hep2000	10	0	10	66	40	80
Immunoconcepts	10	0	10	66	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 182-2

Distribution : 182

March 2018

Participant : 94317

ENZYME IMMUNOASSAY

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges
IU/ml		111	0	111	0	0 11
AESKU		2	0	2	1	1 1
Axis Shield/Diastat		1	0	1	0	0 0
Euroimmun		1	0	1	2	2 2
Inova		4	0	4	4	0 11
ORGenTec		7	0	7	0	0 1
Other ...		2	0	2	0	0 1
Phadia 100 EliA		5	0	5	0	0 1
Phadia 250 EliA		88	0	88	0	0 1
Phadia 250 EliA (CTD)		1	0	1	0	0 0
Units/ml		38	0	38	0	0 1
Dr Fooke		1	0	1	0	0 0
Phadia 100 EliA		1	0	1	0	0 0
Phadia 1000/2500 EliA		7	0	7	0	0 1
Phadia 250 EliA		29	0	29	0	0 1
Ratio		3	1	2	0	0 0
ORGenTec		1	0	1	0	0 0
Other ...		2	1	1	0	0 0

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

Centromere Responses Sample 182-2

Distribution : 182

March 2018

Participant : 94317

Chemiluminescence

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
IU/ml		22	0	22	1	0	6
A. Menarini - Zenit EIA			0	0			
A. Menarini - Zenit RA		8	0	8	0	0	0
Inova QUANTA Flash		14	0	14	3	0	6

Immunoblotting

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
Not Stated		1	0	1			
Euroimmun		1	0	1			
N/A		34	1	33	2	0	11
AESKU		3	0	3			
Alpha Dia		2	0	2			
D-tek		3	0	3			
Euroimmun		21	0	21	0	0	0
Generic Assays		1	0	1			
Other ...		4	1	3	5	0	11

Line Immunoassay/LIA

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

Luminex Technology

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
Titre		1	0	1			
Luminex Tech. - Bio-Rad Bioplex 2200		1	0	1			
IU/ml		11	0	11	7	0	35
Luminex Tech. - Bio-Rad Bioplex 2200		3	0	3	0	0	0
Luminex Tech. - THERADIAG (BMD)		6	0	6	0	0	1
ZEUS		2	0	2	30	25	35
Index		29	0	29	0	0	0
Luminex Tech. - Bio-Rad Bioplex 2200		29	0	29	0	0	0

Other ...

	UNIT	Returns	Positive	Negative	Mean	Observed Ranges	
Other ...		4	0	4	0	0	0
Other ...		4	0	4	0	0	0

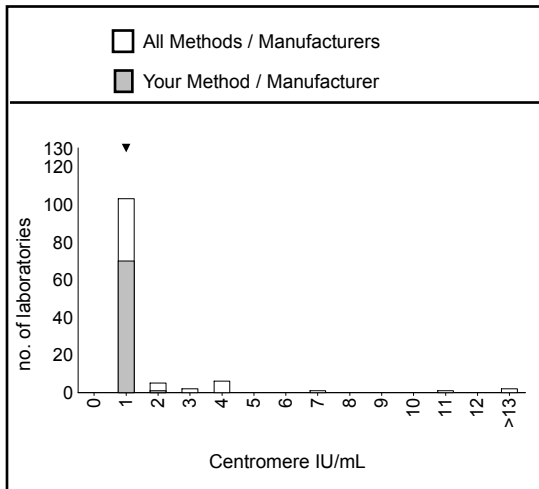
Please note: The statistical figures in the tables above are trimmed

Centromere Responses Sample 182-2

Distribution : 182

March 2018

Participant : 94317



Your Method: Enzyme Immunoassay/ELISA

Your Manufacturer: Phadia 250 EliA

Your Result: 0.3

Your Unit: IU/ml

ENA Responses Sample 182-1

Distribution : 182

March 2018

Participant : 94317

Your Results

SSA: False	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: False	Sci-70: False	Negative: False
SSB Method: Enzyme Immunoassay/ELISA	Sci-70 Method: Enzyme Immunoassay/ELISA	Negative Method:
SSB Manufacturer: Phadia 1000/2500 EliA	Sci-70 Manufacturer: Phadia 1000/2500 EliA	Negative Manufacturer:
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	0	0	41	44	1	1	0	0	0
A. Menarini - Zenit RA	0	0	17	19	0	0	0	0	0
Inova QUANTA Flash	0	0	24	25	1	1	0	0	0
CIE	0	0	0	1	0	0	0	0	0
In House	0	0	0	1	0	0	0	0	0
DD	0	0	0	1	0	0	0	0	0
In House	0	0	0	1	0	0	0	0	0
ENA Screening Tests								58	0
A. Menarini - Zenit RA								4	0
Alpha Dia								1	0
Diasorin								4	0
Euroimmun								2	0
Human-Imtec								1	0
Hycor Biomedical								3	0
Immunoconcepts								1	0
Inova								3	0
Inova QUANTA Flash								8	0
Luminex Tech. - Bio-Rad Bioplex 2200								1	0
ORGenTec								2	0
ORGenTec Alegria								2	0
Other ...								1	0
Phadia 1000/2500 EliA								1	0
Phadia 250 EliA								23	0
Phadia 250 EliA (CTD)								1	0
Enzyme Immunoassay/ELISA	0	1	60	244	1	3	6	0	3
AESKU	0	0	3	3	0	0	0	0	0
Axis Shield/Diastat	0	0	0	1	0	0	0	0	0
Bio-Rad/Kallestad/Sanofi	0	0	1	1	0	0	0	0	0
Dr Fooke	0	0	0	1	0	0	0	0	0
Euroimmun	0	0	8	7	0	0	1	0	0
Hycor Biomedical	0	0	1	1	0	1	0	0	0
Immunoconcepts	0	0	2	2	0	0	0	0	0
Inova	0	0	10	10	0	0	0	0	0
ORGenTec	0	0	19	20	0	0	0	0	0
ORGenTec Alegria	0	0	9	9	0	0	0	0	0
Other ...	0	1	4	6	0	1	0	0	0
Phadia 100 EliA	0	0	0	7	0	0	0	0	0
Phadia 1000/2500 EliA	0	0	0	10	0	0	0	0	0
Phadia 250 EliA	0	0	3	165	1	1	5	0	3
Phadia Vareliisa	0	0	0	1	0	0	0	0	0

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

ENA Responses Sample 182-1

Distribution : 182	March 2018	Participant : 94317
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Method	Ro (SSA)	La (SSB)	Sm	RNP	Sci-70	Jo-1	Other	Positive (Screen Only)	Negative
Immunoblotting	0	0	24	89	2	0	5	0	3
AESKU	0	0	3	4	0	0	0	0	0
Alpha Dia	0	0	11	12	0	0	2	0	1
D-tek	0	0	3	4	0	0	0	0	0
Euroimmun	0	0	6	62	1	0	3	0	2
Inno-LIA	0	0	0	2	0	0	0	0	0
MIKROGEN DIAGNOSTIK	0	0	0	2	0	0	0	0	0
Other ...	0	0	1	3	1	0	0	0	0
Line Immunoassay/LIA	0	0	0	9	0	0	0	0	0
Human-Imtec	0	0	0	3	0	0	0	0	0
Innogenetics	0	0	0	4	0	0	0	0	0
Other ...	0	0	0	2	0	0	0	0	0
Luminex Technology	0	0	38	48	0	0	6	0	0
Luminex Tech. - Bio-Rad Bioplex 2200	0	0	38	37	0	0	6	0	0
Luminex Tech. - THERADIAG (BMD)	0	0	0	8	0	0	0	0	0
ZEUS	0	0	0	3	0	0	0	0	0
Other ...	0	0	0	3	0	0	0	0	0
In House	0	0	0	1	0	0	0	0	0
Other ...	0	0	0	2	0	0	0	0	0

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

ENA Responses Sample 182-2

Distribution : 182	March 2018	Participant : 94317
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Your Results

SSA: False	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: False	Sci-70: True	Negative: False
SSB Method: Enzyme Immunoassay/ELISA	Sci-70 Method: Enzyme Immunoassay/ELISA	Negative Method:
SSB Manufacturer: Phadia 1000/2500 EliA	Sci-70 Manufacturer: Phadia 1000/2500 EliA	Negative Manufacturer:
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	0	0	1	1	29	0	0	0	15
A. Menarini - Zenit RA	0	0	0	0	20	0	0	0	0
Inova QUANTA Flash	0	0	1	1	9	0	0	0	15
CIE	0	0	0	0	0	0	0	0	1
In House	0	0	0	0	0	0	0	0	1
DD	0	0	0	0	0	0	0	0	1
In House	0	0	0	0	0	0	0	0	1
ENA Screening Tests								26	44
A. Menarini - Zenit EIA								0	1
A. Menarini - Zenit RA								2	0
Diasorin								3	1
Euroimmun								2	1
Human-Imtec								1	0
Hycor Biomedical								1	0
Immunoconcepts								1	0
Inova								2	0
Inova QUANTA Flash								2	4
Luminex Tech. - Bio-Rad Bioplex 2200								1	0
ORGenTec								3	0
ORGenTec Alegria								1	1
Phadia 100 EliA								0	1
Phadia 1000/2500 EliA								0	2
Phadia 250 EliA								7	28
Phadia 250 EliA (CTD)								0	5
Enzyme Immunoassay/ELISA	0	0	1	1	173	1	0	0	32
AESKU	0	0	0	0	3	0	0	0	0
Bio-Rad/Kallestad/Sanofi	0	0	0	0	1	0	0	0	0
Dr Fooke	0	0	0	0	0	0	0	0	1
Euroimmun	0	0	0	0	8	0	0	0	0
Hycor Biomedical	0	0	0	0	1	0	0	0	0
Immunoconcepts	0	0	0	0	2	0	0	0	0
Inova	0	0	0	0	10	0	0	0	0
ORGenTec	0	0	0	0	18	0	0	0	1
ORGenTec Alegria	0	0	0	0	7	0	0	0	2
Other ...	0	0	1	1	6	1	0	0	1
Phadia 100 EliA	0	0	0	0	4	0	0	0	1
Phadia 1000/2500 EliA	0	0	0	0	4	0	0	0	3
Phadia 250 EliA	0	0	0	0	109	0	0	0	22
Phadia Vareliisa	0	0	0	0	0	0	0	0	1

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

ENA Responses Sample 182-2

Distribution : 182	March 2018	Participant : 94317
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Method	Ro (SSA)	La (SSB)	Sm	RNP	Sci-70	Jo-1	Other	Positive (Screen Only)	Negative
Immunoblotting	0	0	1	3	79	1	1	0	11
AESKU	0	0	0	0	4	0	0	0	0
Alpha Dia	0	0	0	1	12	1	0	0	1
D-tek	0	0	0	0	5	0	0	0	0
Euroimmun	0	0	1	2	54	0	1	0	7
Inno-LIA	0	0	0	0	0	0	0	0	2
MIKROGEN DIAGNOSTIK	0	0	0	0	2	0	0	0	0
Other ...	0	0	0	0	2	0	0	0	1
Line Immunoassay/LIA	0	0	0	0	3	0	0	0	5
Human-Imtec	0	0	0	0	1	0	0	0	3
Innogenetics	0	0	0	0	0	0	0	0	2
Other ...	0	0	0	0	2	0	0	0	0
Luminex Technology	1	0	0	0	48	0	0	0	2
Luminex Tech. - Bio-Rad Bioplex 2200	0	0	0	0	38	0	0	0	1
Luminex Tech. - THERADIAG (BMD)	0	0	0	0	8	0	0	0	0
ZEUS	1	0	0	0	2	0	0	0	1
Other ...	0	0	0	0	2	0	0	0	0
Other ...	0	0	0	0	2	0	0	0	0

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