

ABO and RhD Grouping

SUMMARY OF EXERCISE MATERIAL

Patient 1 - O D positive
Patient 2 - A D negative
Patient 3 - B D positive

Your results in bold
Expected results are shaded

Patient 1

Your Result : O D Positive

Your Score = 0

Overall Results : O D Positive 100.00% n=(17)

Patient 2

Your Result : A D Negative

Your Score = 0

Overall Results : A D Negative 100.00% n=(17)

Patient 3

Your Result : B D Positive

Your Score = 0

Overall Results : B D Positive 100.00% n=(17)

Your overall score for this exercise :

ABO

0

RhD

0

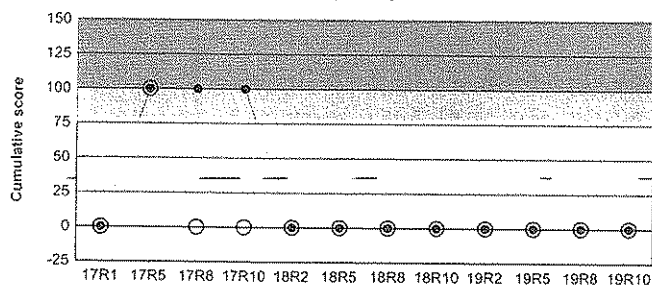
Your last 3 returns contribute to the cumulative scores

● Cumulative Score

○ Distribution Penalty

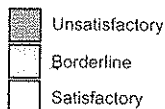
x Non Return

ABO Derived penalty score

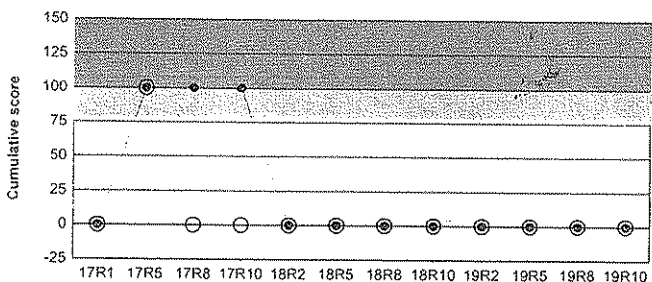


Current Performance : Satisfactory

Cumulative Score : 0

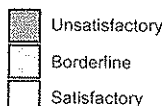


RhD Derived penalty score



Current Performance : Satisfactory

Cumulative Score : 0



Antibody Screening and Identification

SUMMARY OF EXERCISE MATERIAL

Patient 1 - Inert
 Patient 2 - Anti-E
 Patient 3 - Inert

Your results in bold
 Expected results are shaded

Antibody Screen

Antibody Identification

Patient 1

Your Result : No specific antibody detected
 Your Score = 0

Overall Results : No specific antibody detected 100.00% n=(17)

Patient 2

Your Result : Antibody present
 Your Score = 0

No Response
 Your Score = Not Scored

Overall Results : Antibody present 100.00% n=(17) E 100.00% n=(16)

Patient 3

Your Result : No specific antibody detected
 Your Score = 0

Overall Results : No specific antibody detected 100.00% n=(17)

Your overall score for this exercise :

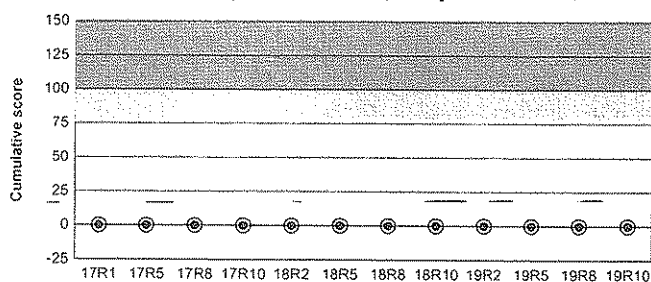
Antibody Screening

0

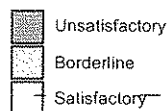
Your last 3 returns contribute to the cumulative scores

☒ Cumulative Score ☐ Distribution Penalty ☒ Non Return

Antibody screen derived penalty score



Current Performance : Satisfactory
 Cumulative Score : 0



Printed at 13:38 on Thursday, 12 December, 2019 (Final Report)

For information on data analysis and performance assessment see the UK NEQAS (BTLP) Participants' Manual (www.ukneqasbtlp.org)

Home Director: Ms J White

Authorised by: Mr R Haggas

UK NEQAS (BTLP), PO Box 133, WATFORD WD18 0WP, UK

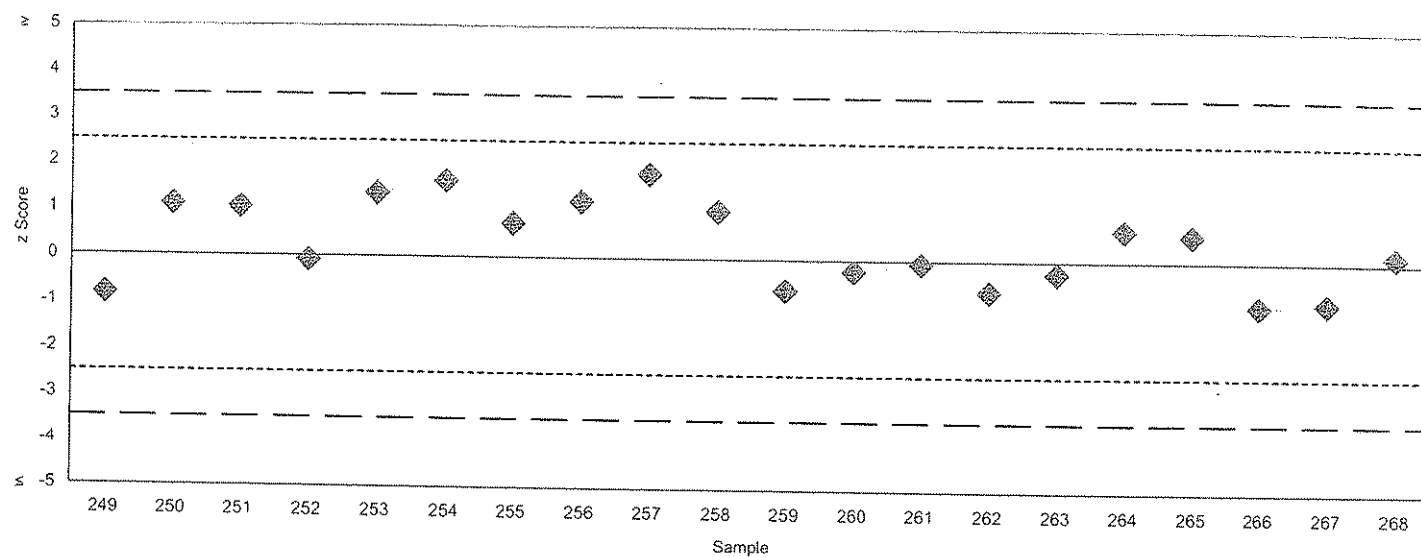
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FAX: 0192 321 7934 Phone: 0192 321 7933

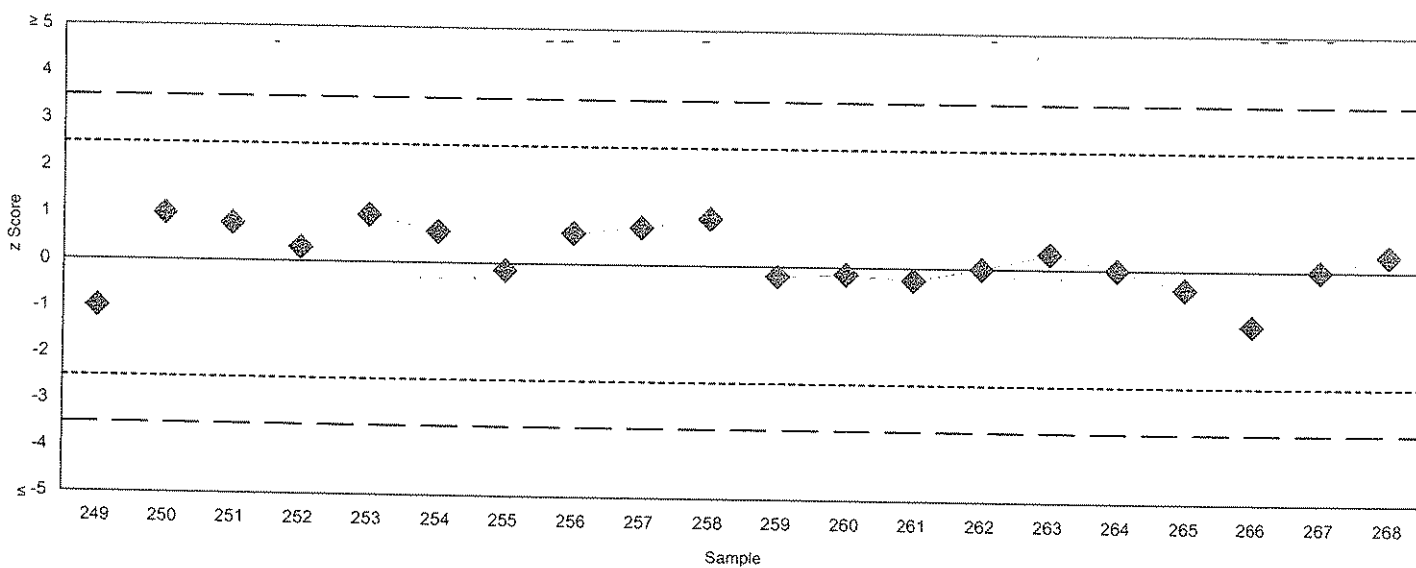
CD34+ Stem Cell Enumeration Programme

Shewhart Control Charts

(Please note each data point represents a single sample)

Absolute Values (cells/ μ L)

Percentage Values (%)





ECAT FOUNDATION

External quality Control for Assays and Tests
With a focus on Thrombosis and Haemostasis

This is to certify that

MDA Blood Services Center
Quality Control Manager
RAMAT GAN
ISRAEL

Under the supervision of

Dr. Katya Shliachterman

Was registered in 2019 in the EQA programme of the ECAT
Foundation for the following modules:

Screen - I; Coagulation Factor - I

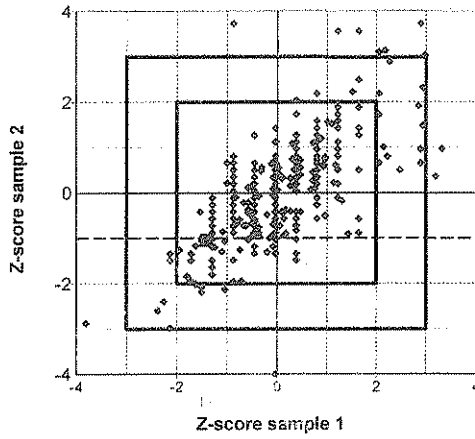
Dr. P Meijer
Director ECAT Foundation

Coagulation Factor - I

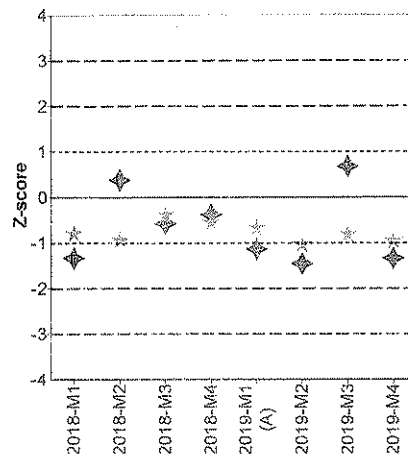
Factor VIII (clotting activity)

Instrument ID 16090357

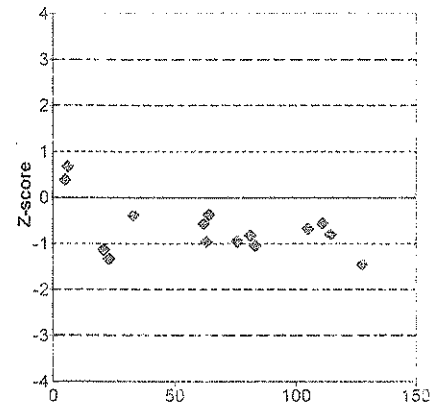
Z-score plot



Z-score history (by survey)

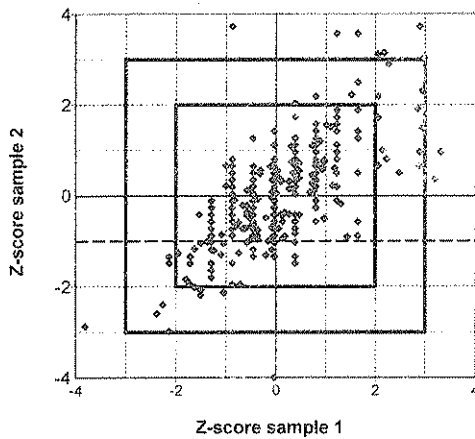


Z-score history (by consensus value)

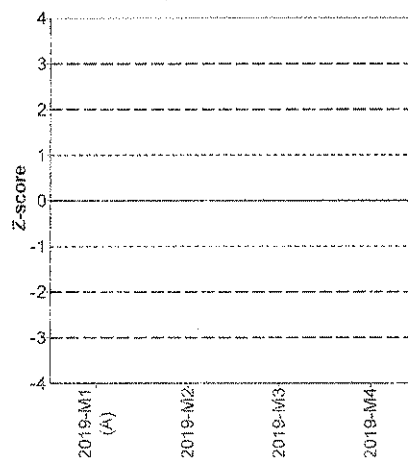


Instrument ID

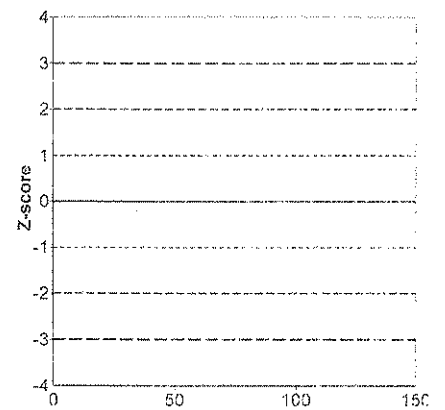
Z-score plot



Z-score history (by survey)

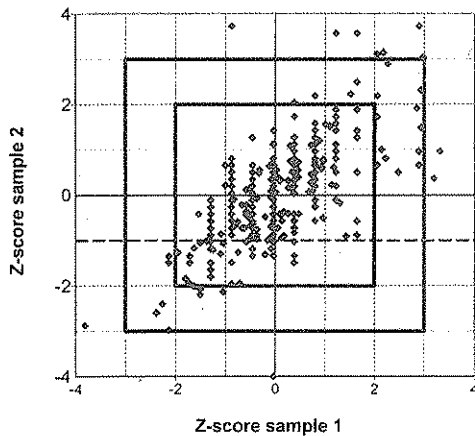


Z-score history (by consensus value)

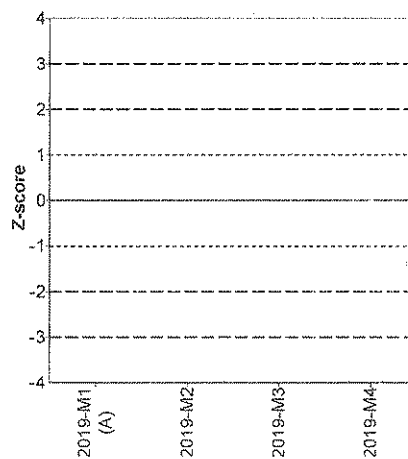


Instrument ID

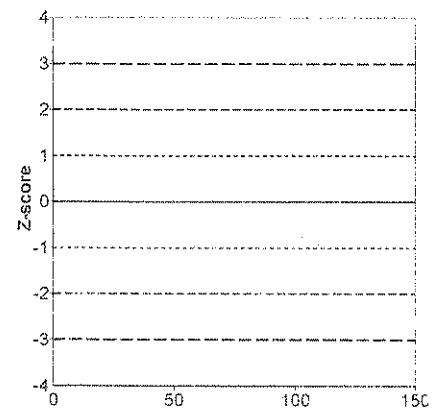
Z-score plot



Z-score history (by survey)



Z-score history (by consensus value)





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Dr. P Meijer

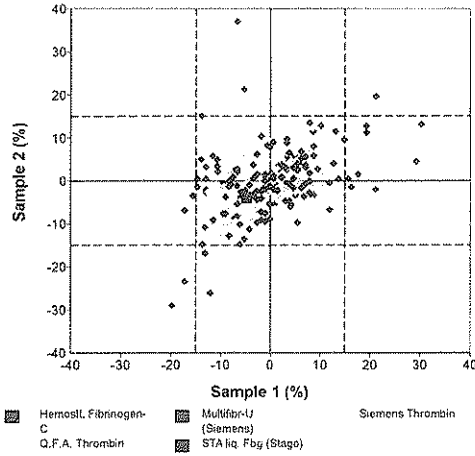
Director ECAT Foundation

Screen - I

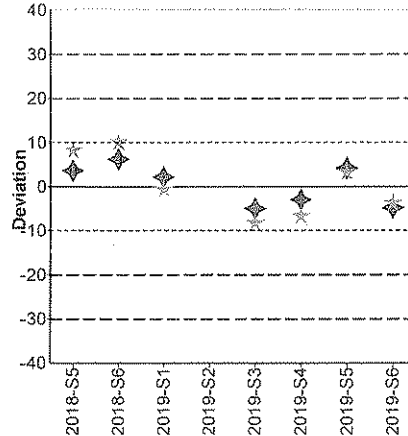
Fibrinogen (Clauss)

Instrument ID 16090357

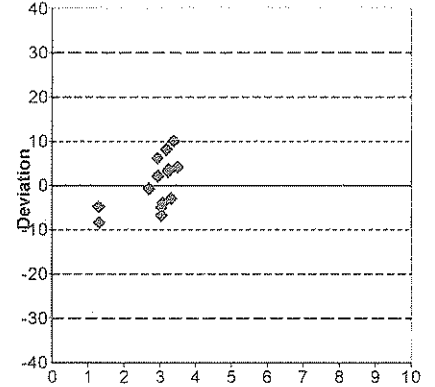
Deviation plot



Deviation history (by survey)

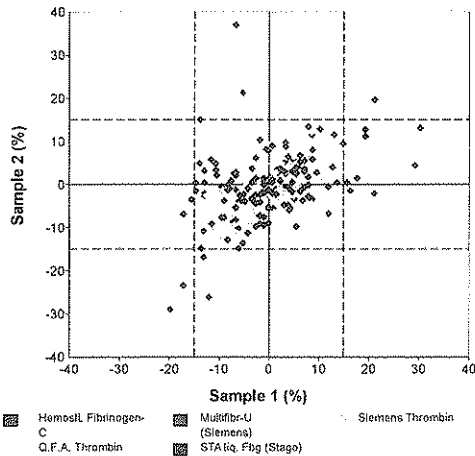


Deviation history (by consensus value)

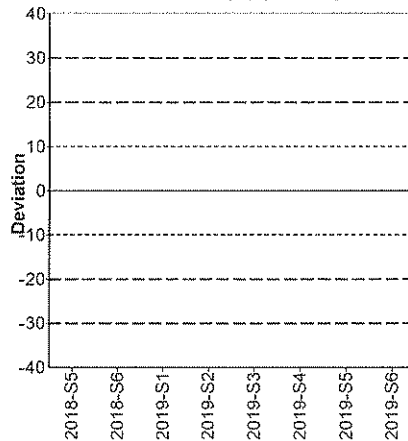


Instrument ID

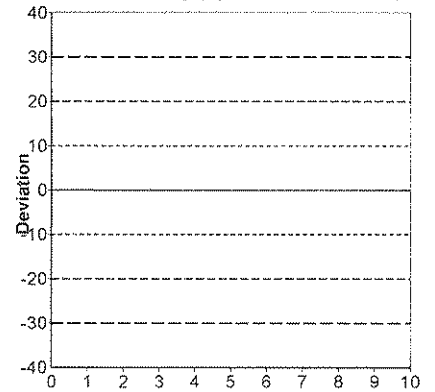
Deviation plot



Deviation history (by survey)

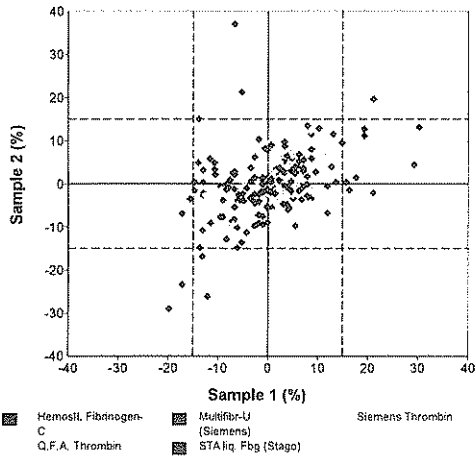


Deviation history (by consensus value)

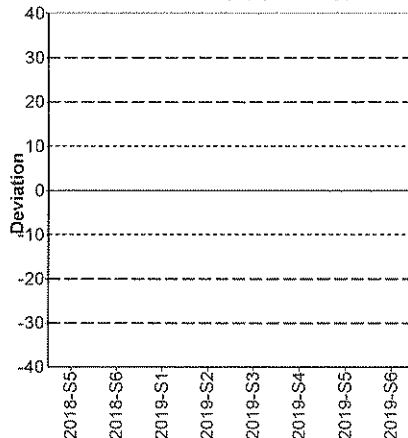


Instrument ID

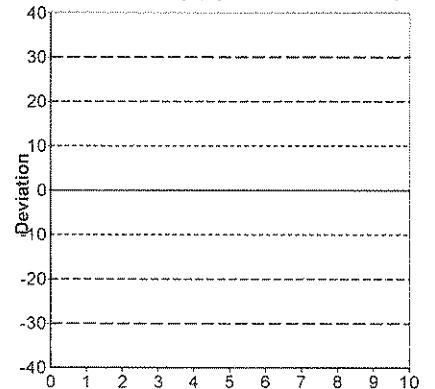
Deviation plot



Deviation history (by survey)



Deviation history (by consensus value)



Survey Contents:

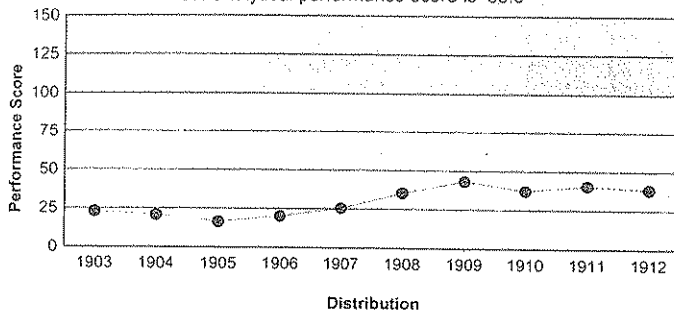
Specimen 1: 1912FB1 Partially fixed human whole blood

Specimen 2: 1912FB2 Partially fixed human whole blood

Non Participation Penalty: 0

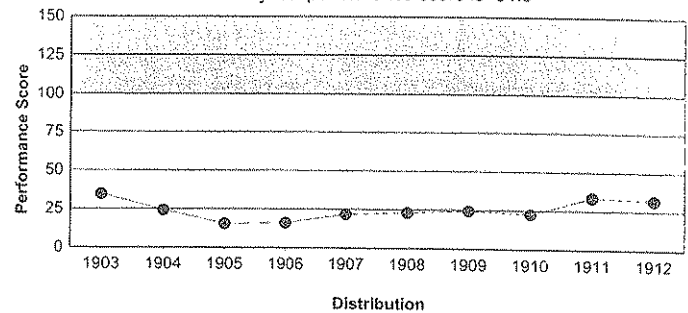
White Blood Count

Your analytical performance score is 38.3



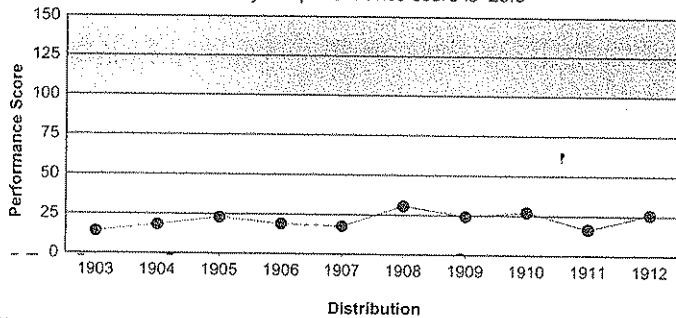
Red Blood Count

Your analytical performance score is 31.9



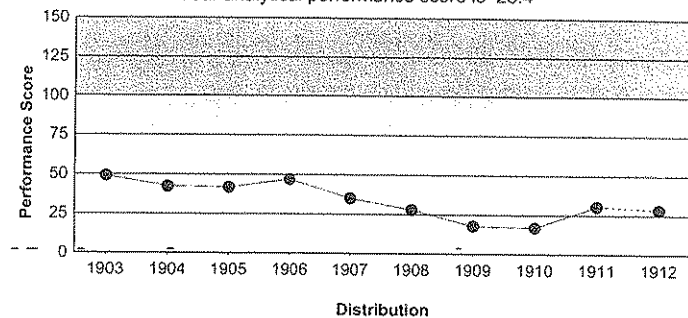
Haemoglobin

Your analytical performance score is 25.8



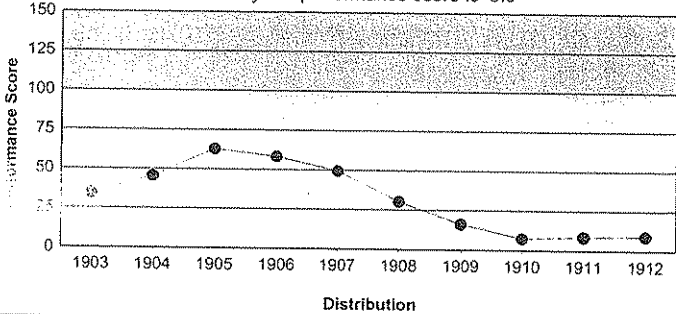
Packed Cell Volume

Your analytical performance score is 28.4



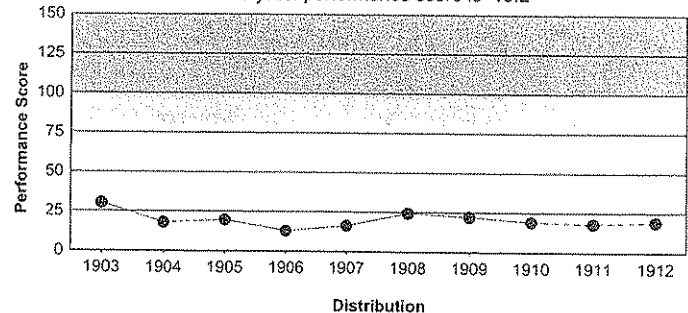
Mean Cell Volume

Your analytical performance score is 9.0



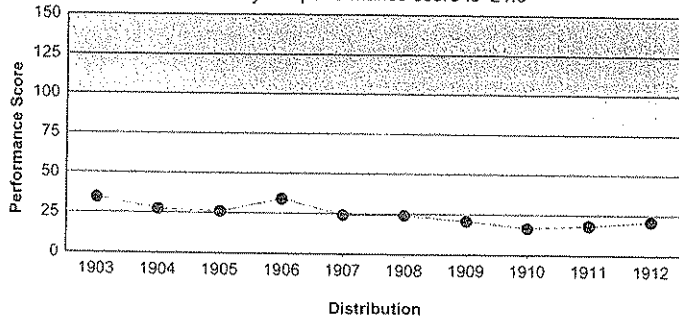
Mean Cell Haemoglobin

Your analytical performance score is 19.2



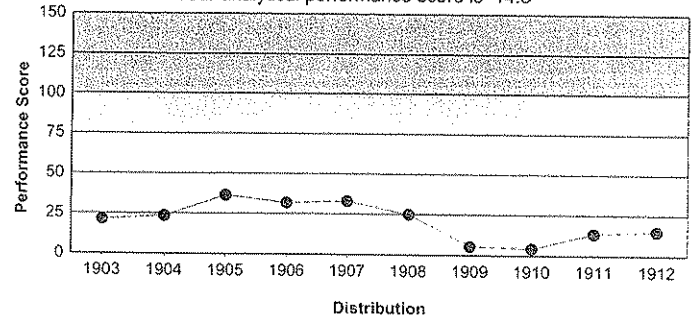
Mean Cell Haem Conc

Your analytical performance score is 21.0



Platelet Count

Your analytical performance score is 14.8



Survey Contents:

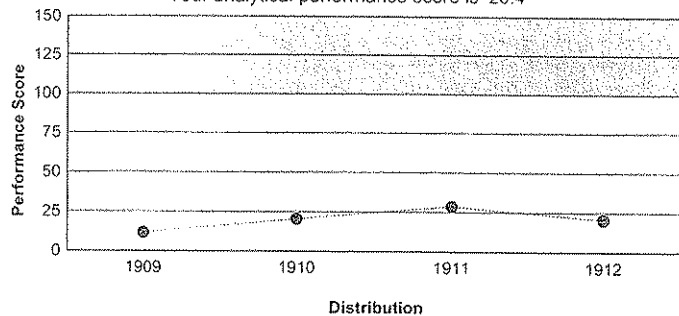
Specimen 1: 1912FB1 Partially fixed human whole blood

Specimen 2: 1912FB2 Partially fixed human whole blood

Non Participation Penalty: 0

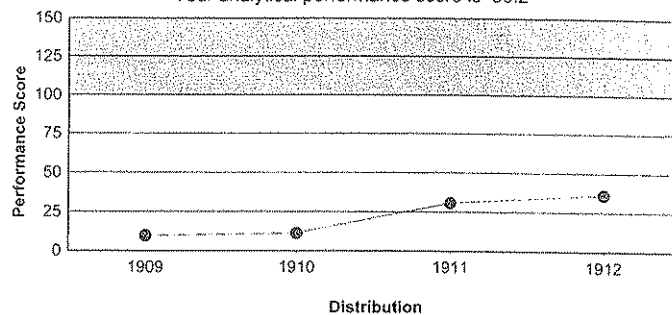
White Blood Count

Your analytical performance score is 20.4



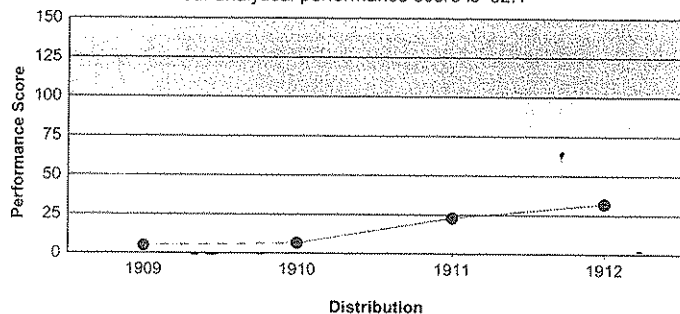
Red Blood Count

Your analytical performance score is 36.2



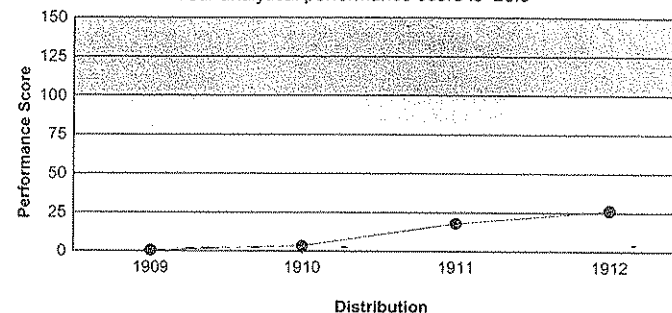
Haemoglobin

Your analytical performance score is 32.1



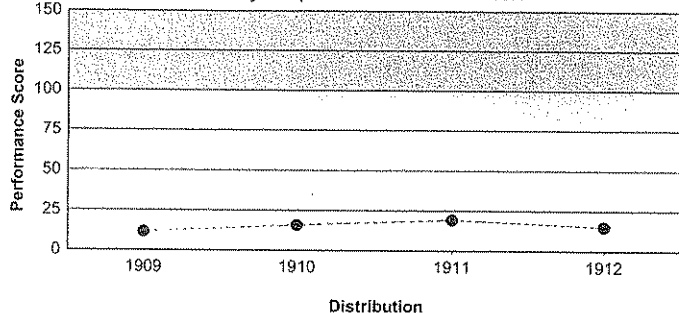
Packed Cell Volume

Your analytical performance score is 26.3



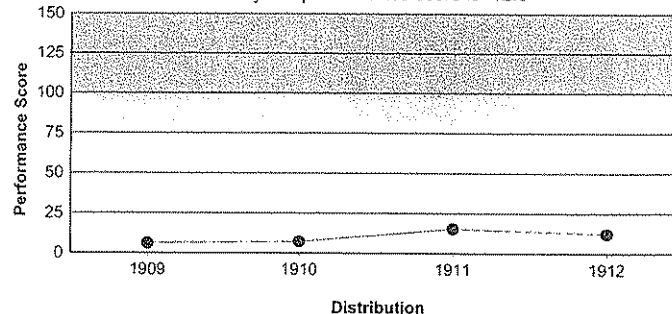
Mean Cell Volume

Your analytical performance score is 15.1



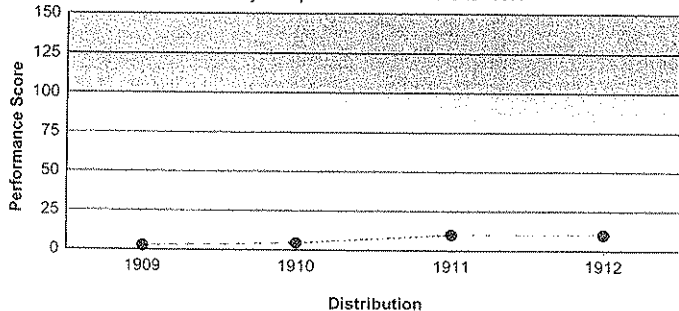
Mean Cell Haemoglobin

Your analytical performance score is 12.3



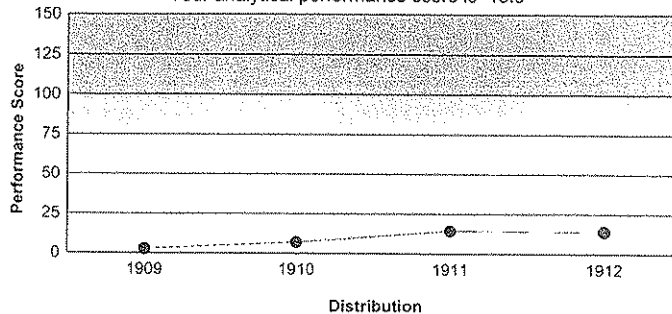
Mean Cell Haem Conc

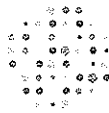
Your analytical performance score is 10.1



Platelet Count

Your analytical performance score is 13.9





COLLEGE of AMERICAN
PATHOLOGISTS

The College of American Pathologists recognizes

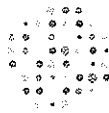
Magen David Adom-Blood Services

Immunology

7238203-01

As a laboratory demonstrating continuous improvement in quality through participation in the 2019 CAP Surveys, and/or Anatomic Pathology Education Programs.

Patrick Godbey, MD, FCAP
CAP President



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CAP President



**COLLEGE of AMERICAN
PATHOLOGISTS**
325 Waukegan Road, Northfield, Illinois 60093-2750
800-323-4040 • cap.org

CAP Number: 7238203-01

Kit# 1

Institution: Magen David Adom-Blood Services

Attention: Liora Muncher

City / State: Tel Hashomer IS

Kit ID: 32323439

Kit Mailed: 9/9/2019

Original Evaluation: 10/24/2019

**EVALUATION
ORIGINAL**

J-C 2019 Transfusion Medicine (Comp)

CAP

CAP #: 7238203		Subspecialty : Unexpected Antibody Det			
Regulated Analyte	Proficiency Event 2019		Proficiency Event 2019		Cumulative CLIA '88 Performance Interpretation
	Test Event	Score	Test Event	Score	
Antibody Detection, Unexpected	J-A	5/5 100	J-B	5/5 100	Successful
Unexpected Antibody Det		5/5 100		5/5 100	Successful

The College of American Pathologists recommends that the result of this interlaboratory comparison not be used as a sole criterion for judging the performance of any individual clinical laboratory.



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PATHOLOGISTS**
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CAP Number: 7238203-01

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Kit ID: 32323439

Kit Mailed: 9/9/2019

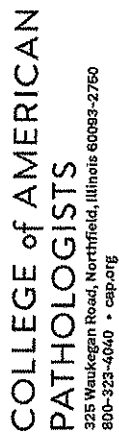
Original Evaluation: 10/24/2019

**EVALUATION
ORIGINAL**

J-C 2019 Transfusion Medicine (Comp)

CAP

CAP #: 7238203 Subspecialty : ABO Group/Rh Type									
Regulated Analyte	Proficiency Event		Proficiency Event		Proficiency Event		Proficiency Event		Cumulative CLIA '88 Performance Interpretation
	2019	1	2019	2	2019	3	2019	3	
ABO Group Rh (D) Type	Test Event	Score	%	Test Event	Score	%	Test Event	Score	%
	J-A	5/5	100	J-B	5/5	100	J-C	5/5	100
ABO Group/Rh Type	J-A	5/5	100	J-B	5/5	100	J-C	5/5	100
	10/10	100	100	10/10	100	100	10/10	100	100
							Satisfactory		Successful
							Satisfactory		Successful
							Satisfactory		Successful



Kit ID: 32323439

Kit Mailed: 9/9/2019

Original Evaluation: 10/24/2019

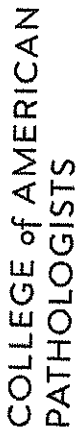
City / State: Tel Hashomer IS

ORIGINAL

J-C 2019 Transfusion Medicine (Comp)

CAP

The College of American Pathologists recommends that the result of this interlaboratory comparison not be used as a sole criterion for judging the performance of any individual clinical laboratory.



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800-323-4040 • cap.org

City / State: Tel Hashomer IS

Original Evaluation: 10/24/2019

J-C 2019 Transfusion Medicine (Comp)

CAP #: 7238203
Subspecialty: Compatibility Testing

The College of American Pathologists recommends that the result of this interlaboratory comparison not be used as a sole criterion for judging the performance of any individual clinical laboratory.



IN STAND

CERTIFICATE

Survey of 23 October 2019

You have fulfilled the requirements of the External Quality Assessment with the following analysis

Immunohaematology 06 - Molecular Diagnostic (235):

Validity 12 months:

ABO

MNS

RHD Zygotie

RHD

RHCE

KEL (k/K)

FY

JK

(R) analysis is subject to the RiliBAK

Participant:

33144

Dr. Liora Muncher Immunohematology MDA Blood

Serviced

Tel Hashomer

5262000 Ramat Gan

DAKKS



Dusseldorf, 20 November 2019

Prof. Dr. med. Michael Spannagl
(Head of Reference Institution)

Prof. Dr. med. Gregor Bein
(Adviser)

Prof. Dr. med. Willy A. Flegel
(Adviser)

IN STAND

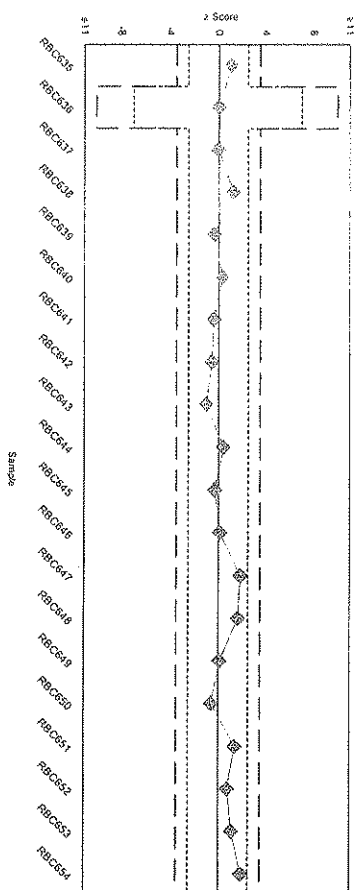
Gesellschaft zur Förderung der Qualitätssicherung
in medizinischen Laboratorien e.V.
Überstr. 20 | 40223 Düsseldorf

Low Level Leucocyte Enumeration Programme

Shewhart Control Charts

(Please note each data point represents a single sample)

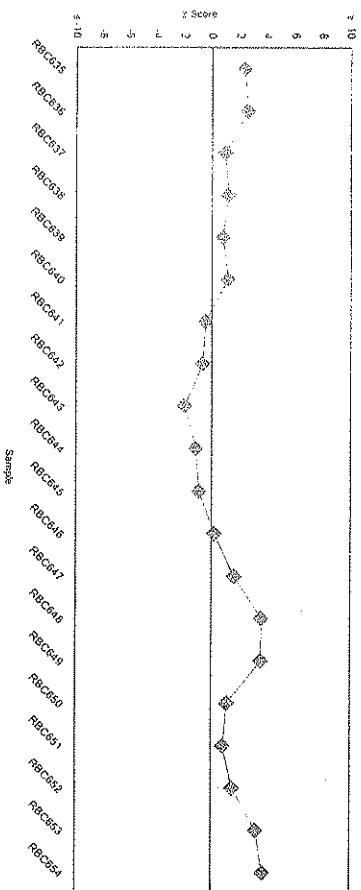
Absolute Values (cells/L) - Machine 2



Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)

Absolute Values (cells/L) - Machine 2



Leucocyte Immunophenotyping

Low Level Leucocyte Enumeration Programme

Staining Method Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/L)		
	Returns	Mean	Robust SD
BD Leucocount	74	11.74	1.19

Flow Cytometer Specific Statistics

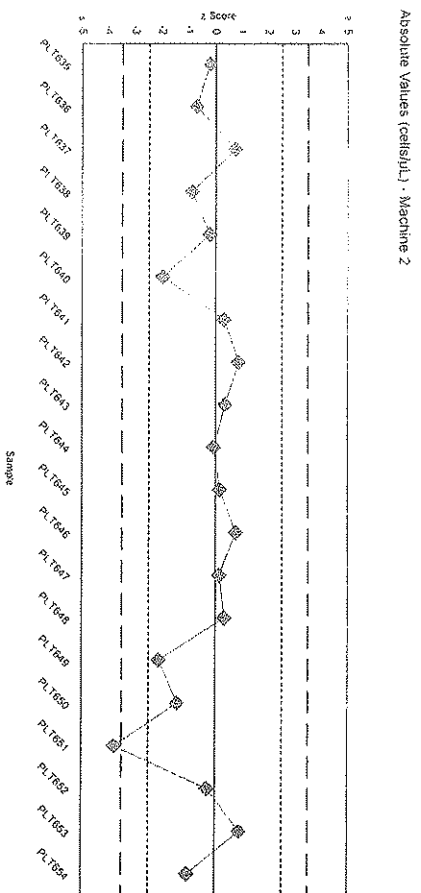
(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/L)		
	Returns	Mean	Robust SD
Facs Canto II	32	11.93	0.93
Facscalibur	23	11.33	1.04
Navios	20	12.07	1.58

Low Level Leucocyte Enumeration Programme

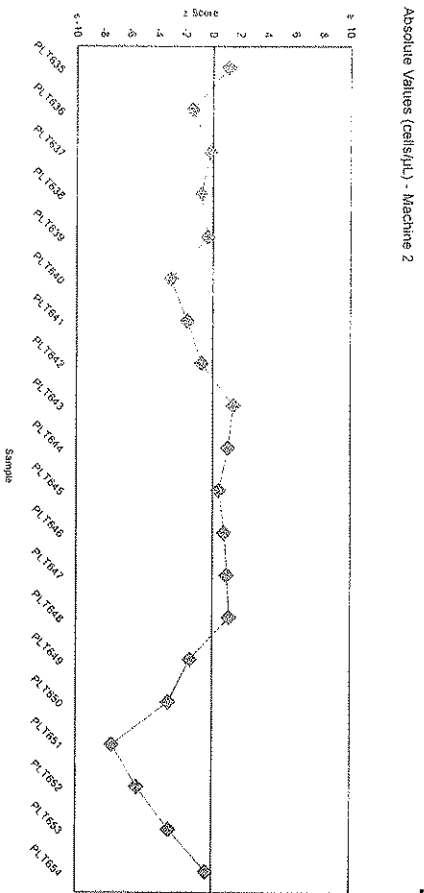
Shewhart Control Charts

(Please note each data point represents a single sample)



Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)



Low Level Leucocyte Enumeration Programme

Staining Method Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
BD Leucocount	74	2.42	0.37

Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
Facs Canto II	32	2.38	0.38
Facscalibur	23	2.38	0.34
Navios	20	2.40	0.38

Item	Result	Your Report	Your Score
imen 5163	Reagin negative TP Agglutination positive FTA-Abs positive Immunoassay IgG/total Ab positive Immunoassay IgM negative Immunoblot IgG positive Immunoblot IgM negative	Not examined TP Agglutination positive Not examined Not examined Not examined Not examined Not examined	Not scored 2 Not scored Not scored Not scored Not scored Not scored
imen 5164	Reagin positive TP Agglutination negative FTA-Abs negative Immunoassay IgG/total Ab negative Immunoassay IgM negative Immunoblot IgG negative Immunoblot IgM negative	Not examined TP Agglutination negative Not examined Not examined Not examined Not examined Not examined	Not scored 2 Not scored Not scored Not scored Not scored Not scored
imen 5165	Reagin negative TP Agglutination positive FTA-Abs positive Immunoassay IgG/total Ab positive Immunoassay IgM negative Immunoblot IgG positive Immunoblot IgM negative	Not examined TP Agglutination negative Not examined Not examined Not examined Not examined Not examined	Not scored Not scored Not scored Not scored Not scored Not scored Not scored
imen 5166	Reagin positive TP Agglutination positive FTA-Abs positive Immunoassay IgG/total Ab positive Immunoassay IgM positive Immunoblot IgG positive Immunoblot IgM positive	Not examined TP Agglutination positive Not examined Not examined Not examined Not examined Not examined	Not scored 2 Not scored Not scored Not scored Not scored Not scored
imen 5167	Reagin negative TP Agglutination positive FTA-Abs positive Immunoassay IgG/total Ab positive Immunoassay IgM negative Immunoblot IgG positive Immunoblot IgM negative	Not examined TP Agglutination positive Not examined Not examined Not examined Not examined Not examined	Not scored 2 Not scored Not scored Not scored Not scored Not scored
imen 5168	Reagin negative TP Agglutination negative FTA-Abs negative Immunoassay IgG/total Ab negative Immunoassay IgM negative Immunoblot IgG negative Immunoblot IgM negative	Not examined TP Agglutination negative Not examined Not examined Not examined Not examined Not examined	Not scored 2 Not scored Not scored Not scored Not scored Not scored

Comments: Performance information relating to this distribution is available in the commentary section page 21.

Results for each marker by methods used by participants are presented on subsequent pages.

turnaround time: The time taken to report your results was 0-days. This information is provided for your own use and does not form part of your performance assessment.

Acknowledgements: We thank colleagues at PHE- Public Health Laboratories in Birmingham, Bristol, Manchester and Newcastle; and the Department of Microbiology, Sheffield for assistance with pre-distribution tests.

Queries: Any queries about this distribution please contact Habib Seyedzadeh at the e-mail address below. Pre-distribution test results are available should you experience a technical failure and wish to discuss the results.

Repeat specimens please order using the web form or e-mail organiser@ukneqasmicro.org.uk stating your laboratory identification number, the distribution number and specimen numbers.

Report authorised by: Dr. Sanjiv Rughooputh, Director.

Specimen	Result	Your Report	Your Score
Specimen 4815	Reagin negative TP Agglutination negative FTA-Abs negative Immunoassay IgG/total Ab negative Immunoblot IgG negative Immunoassay IgM negative Immunoblot IgM negative	Not examined TP Agglutination negative Not examined Not examined Not examined Not examined Not examined	Not scored 2 Not scored Not scored Not scored Not scored Not scored
Specimen 4816	Reagin negative TP Agglutination positive FTA-Abs positive Immunoassay IgG/total Ab positive Immunoblot IgG positive Immunoassay IgM negative Immunoblot IgM negative	Not examined TP Agglutination positive Not examined Not examined Not examined Not examined Not examined	Not scored 2 Not scored Not scored Not scored Not scored Not scored
Specimen 4817	Reagin negative TP Agglutination positive FTA-Abs positive Immunoassay IgG/total Ab positive Immunoblot IgG positive Immunoassay IgM negative Immunoblot IgM negative	Not examined TP Agglutination positive Not examined Not examined Not examined Not examined Not examined	Not scored 2 Not scored Not scored Not scored Not scored Not scored
Specimen 4818	Reagin positive TP Agglutination positive FTA-Abs positive Immunoassay IgG/total Ab positive Immunoblot IgG positive Immunoassay IgM positive Immunoblot IgM positive	Not examined TP Agglutination positive Not examined Not examined Not examined Not examined Not examined	Not scored 2 Not scored Not scored Not scored Not scored Not scored
Specimen 4819	Reagin negative TP Agglutination positive FTA-Abs positive Immunoassay IgG/total Ab positive Immunoblot IgG positive Immunoassay IgM negative Immunoblot IgM negative	Not examined TP Agglutination positive Not examined Not examined Not examined Not examined Not examined	Not scored Not scored Not scored Not scored Not scored Not scored Not scored
Specimen 4820	Reagin negative TP Agglutination negative FTA-Abs negative Immunoassay IgG/total Ab negative Immunoblot IgG negative Immunoassay IgM negative Immunoblot IgM negative	Not examined TP Agglutination negative Not examined Not examined Not examined Not examined Not examined	Not scored 2 Not scored Not scored Not scored Not scored Not scored

Comments: Please check last pages (Pages 21-23) for additional comments.

Results: Results for each marker by methods used by participants are presented on subsequent pages.

Viewing results: Images of the Fujirebio INNO-LIA IgG line assay of the positive specimens can be viewed on: www.ukneqasmicro.org.uk, by logging onto the Results and Reports section and selecting the 'Dist' button for the scheme.

Reporting time: The time taken to report your results was 0-days. This information is provided for your own use and does not form part of your performance assessment.

Acknowledgements: We thank colleagues at PHE- Public Health Laboratories in Birmingham, Bristol, Manchester and Newcastle; and the Department of Microbiology, Sheffield for assistance with pre-distribution tests.

Queries: Any queries about this distribution please contact Dr Beatrix Kele at the e-mail address below. Pre-distribution test results are available should you experience a technical failure and wish to discuss the results.

Ordering repeat specimens: Please order using the web form or e-mail organiser@ukneqasmicro.org.uk stating your laboratory identification number, the distribution number and specimen numbers.

Authorised by: Dr. Sanjiv Rughooputh, Scheme Organiser.



Certificate of Acceptable Performance

BIO-RAD

THIS IS TO CERTIFY THAT:

**BLOOD-TRANSFUSED INFECTIOUS DISEASES LAB
MADA
Lab 124442**

HAS SUCCESSFULLY COMPLETED THE EXTERNAL QUALITY ASSESSMENT FOR:

**EQAS HIV/Hepatitis Program (Quantitative)
Cycle 4: March 2019 – March 2020**

FOR THE FOLLOWING TESTS:

HBc Ab, Total
HBs Ab, Total-Unit
HIV-1/2 Ab
HTLV-I Ab, Total

Acceptable performance criteria: $\geq 75\%$ response rate with results within ± 3 Z-score



Bio-Rad Laboratories is fully accredited by the American Association for Laboratory Accreditation (A2LA) to the ISO/IEC 17043:2010 standard.

Azita Mokhtari

Azita Mokhtari, EQAS Program Manager

**Bio-Rad Laboratories
EQAS Program Enrollment**

9500 Jeronimo Road
Irvine, CA 92618-2017, USA
email: eqas@bio-rad.com

Intended Result	Your Report	Your Score
Specimen 5419 HBsAg positive	HBsAg positive	2
Anti-HBc positive	Anti-HBc positive	2
HCV Ag/Ab negative	HCV Ag/Ab negative	2
HIV 1/2 Ag/Ab negative	HIV 1/2 Ag/Ab negative	2
Anti-HTLV I/II negative	Anti-HTLV I/II negative	2
Tp Immunoassay IgG/total Ab negative	Not examined	Not scored
Specimen 5420 HBsAg negative	HBsAg negative	2
Anti-HBc negative	Anti-HBc negative	2
HCV Ag/Ab positive	HCV Ag/Ab positive	2
HIV 1/2 Ag/Ab negative	HIV 1/2 Ag/Ab negative	2
Anti-HTLV I/II negative	Anti-HTLV I/II negative	2
Tp Immunoassay IgG/total Ab negative	Not examined	Not scored
Specimen 5421 HBsAg negative	HBsAg negative	2
Anti-HBc negative	Anti-HBc negative	2
HCV Ag/Ab negative	HCV Ag/Ab negative	2
HIV 1/2 Ag/Ab presumptive positive	HIV 1/2 Ag/Ab presumptive positive	2
Anti-HTLV I/II negative	Anti-HTLV I/II negative	2
Tp Immunoassay IgG/total Ab negative	Not examined	Not scored

Cumulative score information

Total number of specimens sent to you for UK NEQAS for Blood donor screen over the last 6 distributions is 18

For these distributions specimen numbers 4971 4972 4973 5053 5054 5055 5148 5149 5150 5230 5231 5232 5321 5322 5323 5419 5420 5421 have been sent.

Number of specimens reported too late for analysis (not scored) 0

Your cumulative score for the specimen/test combinations that you reported was 148 out of a possible total of 148

The mean score calculated from the reports returned by ALL laboratories testing the specimen/test combinations you examined was 147.40 (with a standard error of 1.78).

Performance rating

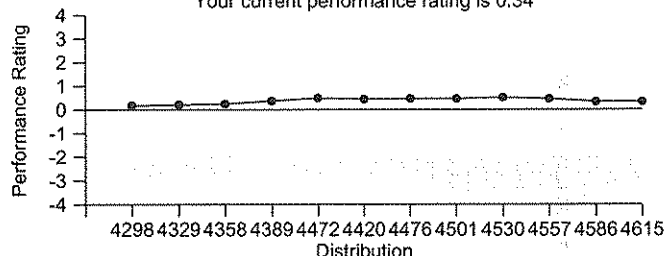
Your performance rating for UK NEQAS for Blood donor screen (i.e. the number of standard errors by which your cumulative score lies above or below the mean for ALL laboratories) is 0.34.

A performance rating of more than 1.96 standard errors below the mean indicates possible poor performance.

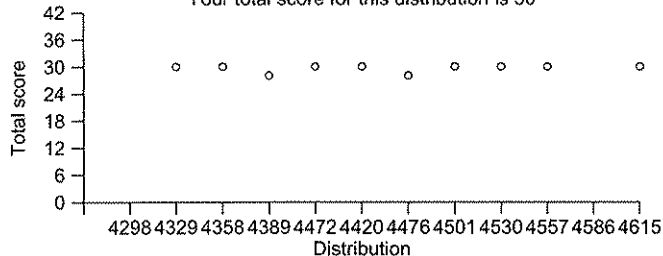
Your performance rating may change if other participants' results are amended.

No score penalty is incurred for non return of reports. However non return of results may be used as a measure of poor performance.

Your performance rating over the past 12 distributions
Your current performance rating is 0.34



Total score you achieved for each of the last 12 distributions
Your total score for this distribution is 30

**Comments**

Overall performance for this distribution was excellent with 100% of participants reporting correct results for HBsAg, Anti-HBc, Anti-HTLV I/II and Treponemal antibodies. 99.7% of participants reported correct results for HIV-1/2 Ag/Ab and HCV Ag/Ab.

This scheme is intended for laboratories performing screening assays only. Results of confirmatory assays (e.g. Immunoblot assays) are not included in the analysis. In the histograms on page 2 and subsequent pages a maximum of 10 kit results are displayed: this includes the most commonly used methods and the method(s) used in your laboratory indicated by an arrow(s). The figures in the histograms and those in the overall results tables may differ (1) due to exclusion of kits displayed in the histograms resulting in apparently lower numbers of data sets in the histograms or (2) due to participants using more than one kit resulting in higher numbers of data sets in the histograms.

The time taken to report your results was 9-days. This information is provided for your own use and does not form part of your performance assessment.

Enquiries: For repeat specimens, please order using the web form or e-mail organiser@ukneqasmicro.org.uk stating your laboratory identification number, the distribution name and number, specimen number(s), and reason for request. Pre-distribution test results are available should you experience a technical failure and wish to discuss the results. Any queries about this distribution can be addressed to Dr Sanjiv Rughooputh at the above email address.

Acknowledgments: We thank colleagues at PHE Manchester, PHE Virus Reference Division in Colindale, Gloucestershire Royal Hospital, and NHS Blood and Transplant for their assistance with pre-distribution testing.

Report authorised by: Dr Sanjiv Rughooputh, Director.



Analyte Scorecard

CAP #	CLIA #	Name / Address	CAP Accreditation Participant	Demographic Group
6385501		Magen David Adom-Blood Services Tel Hashomer, 52621 Israel		

Bolded analytes are regulated analytes as defined in CLIA 88, Subpart I, Proficiency Testing Programs for Nonwaived Testing; **Red** highlight indicates unsatisfactory performance; Yellow highlight indicates satisfactory performance <100%.

Analyte	CAP #	Program Year	Event	Evaluation Date	Kit #	Mailing	Score	%	Performance
Anti-CMV	638550101	2019	1	3/1/2019	32320527-1	VM-A 2019	3/3	100	Satisfactory
Anti-HTLV I/II	638550101	2019	1	3/1/2019	32320527-1	VM-A 2019	3/3	100	Satisfactory
Anti-CMV	638550101	2019	2	6/14/2019	32320628-1	VM-B 2019	2/3	67	Satisfactory
Anti-HTLV I/II	638550101	2019	2	6/14/2019	32320628-1	VM-B 2019	3/3	100	Satisfactory
HBV by NAT	638550101	2019	1	4/17/2019	32330643-1	NAT-A 2019	5/5	100	Satisfactory
HCV by NAT	638550101	2019	1	4/17/2019	32330643-1	NAT-A 2019	5/5	100	Satisfactory
HIV by NAT	638550101	2019	1	4/17/2019	32330643-1	NAT-A 2019	5/5	100	Satisfactory
Multiplex by NAT	638550101	2019	1	4/17/2019	32330643-1	NAT-A 2019	5/5	100	Satisfactory
HBV by NAT	638550101	2019	2	8/13/2019	32330646-1	NAT-B 2019	4/4	100	Satisfactory
HCV by NAT	638550101	2019	2	8/13/2019	32330646-1	NAT-B 2019	4/4	100	Satisfactory
HIV by NAT	638550101	2019	2	8/13/2019	32330646-1	NAT-B 2019	4/4	100	Satisfactory
Multiplex by NAT	638550101	2019	2	8/13/2019	32330646-1	NAT-B 2019	5/5	100	Satisfactory
West Nile Virus by NAT	638550101	2019	2	8/13/2019	32330646-1	NAT-B 2019	5/5	100	Satisfactory
HBV by NAT	638550101	2019	3	11/12/2019	32330649-1	NAT-C 2019	5/5	100	Satisfactory
HCV by NAT	638550101	2019	3	11/12/2019	32330649-1	NAT-C 2019	5/5	100	Satisfactory
HIV by NAT	638550101	2019	3	11/12/2019	32330649-1	NAT-C 2019	5/5	100	Satisfactory
Multiplex by NAT	638550101	2019	3	11/12/2019	32330649-1	NAT-C 2019	5/5	100	Satisfactory
West Nile Virus by NAT	638550101	2019	3	11/12/2019	32330649-1	NAT-C 2019	5/5	100	Satisfactory