RANDOX

RANDOX INTERNATIONAL QUALITY ASSESSMENT SCHEME





RIQAS

THE LARGEST INTERNATIONAL EQA SCHEME WITH OVER 76,000 LAB PARTICIPANTS



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BENEFITS

Delivering a comprehensive yet cost effective EQA solution, RIQAS will help meet regulatory requirements and increase confidence in test system accuracy.



Large Database of Users

• A high level of participation means peer group numbers are maximised whilst ensuring availability of data for a wide range of instruments and methods.



User-friendly Reports

- Simple, one page per parameter format, enables at-a-glance performance assessment, saving valuable laboratory time.
- Complimentary multi-instrument and interlaboratory reports allow comparative performance assessment of all laboratory systems and multiple connected laboratories.
- End-of-Cycle reports, summarising performance compared to the previous cycle, allows you to identify improvements in quality over time.



Cost Effective

- Our extensive range of multi-analyte programmes will reduce the number of individual programmes required to cover your test menu, saving both time and money.
- Reduced parameter options for selected programmes offer greater flexibility, ensuring suitability for laboratories of all sizes and budgets.
- Register up to five instruments per programme (volume permitting) at no extra cost for comparative performance assessment.



Frequency

- Frequent reporting allows early identification of system errors and implementation of any necessary corrective actions with minimum disruption to the lab.
- With a turnaround of less than 72 hours for most reports, corrective action can be implemented earlier, potentially reducing costly errors with patient results.



High Quality Samples

- Samples spanning clinically relevant levels allow identification of concentration related biases, helping to ensure accurate instrument performance.
- Human samples free from interfering preservatives increase confidence that EQA performance mirrors the performance of patient samples.
- Reference method values are provided in the Clinical Chemistry programme for selected parameters and lots, while for the Immunosuppressant programme they are provided for all parameters and lots.



Highly Accredited

- Programmes accepted by National and International accreditation bodies worldwide.
- Participant certificates provide evidence of participation in a reputable EQA scheme.

RIQAS is the largest international EQA scheme in the world. It is used by more than 76,000 laboratory participants in 139 countries. 35 programmes are currently available.

RIQAS Programmes

- Ammonia/Ethanol
- Anti-Müllerian Hormone (AMH)
- Anti-TSH Receptor
- Blood Gas
- BNP
- Cardiac
- Cardiac Plus
- Cerebrospinal Fluid (CSF)
- Clinical Chemistry
- Coagulation
- CO-Oximetry
- CYFRA 21-1

- Cytokines
- ESR
- Glycated Haemoglobin (HbA1c)
- Haematology
- Human Urine
- Immunoassay
- Immunoassay Speciality 1
- Immunoassay Speciality 2
- Immunosuppressant Drugs
- Lipids
- Maternal Screening
- Microbiology (Bacterial Identification)

- Neonatal Bilirubin
- Serology Epstein Barr Virus (EBV)
- Serology (HIV/Hepatitis)
- Serology (Syphilis)
- Serology (ToRCH)
- Serum Indices
- Specific Proteins
- Sweat Testing
- Therapeutic Drugs
- Urinalysis
- Urine Toxicology

Accreditation

- RIQAS provides certificates as proof of EQA participation and performance for laboratory accreditation purposes.
- RIQAS is a UKAS accredited Proficiency Testing Provider, No. 0010, and is accredited to ISO/IEC 17043:2010, 'Conformity Assessment- General Requirements for Proficiency Testing'.
- Accreditation to ISO/IEC 17043:2010 highlights the superior quality and excellence of RIQAS.

UK Performance Surveillance

- Recognised by the Quality Assurance in Pathology Committee (QAPC).
- Recognised by various National Quality Assurance Advisory Panels (NQAAP).

Independent Advisory Panel

RIQAS participants have access to an independent advisory panel consisting of scientific and clinical experts. This ensures professional and ethical conduct of the scheme and participant confidentiality.

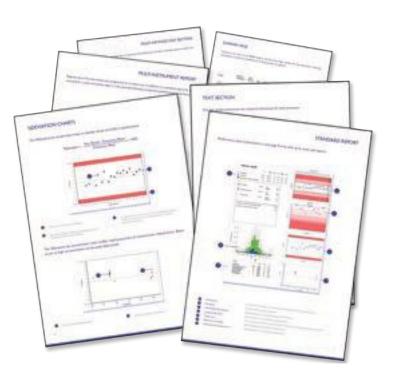
RIQAS support staff are on hand to offer advice and troubleshoot technical queries.

RIQAS REPORTS

RIQAS reports are presented in a user-friendly, one page per parameter format. This allows easy interpretation of your analytical performance.

RIQAS Reports

- Statistical breakdown by all methods, your method and, where applicable, your instrument, including running means for the last 10 samples.
- Compare your instrument group, method group and all methods using the histogram.
- Identify trends, biases and precision problems using the visual charts.
- The Target Score chart uniquely grades your performance in a moving window over the last 20 samples, including the previous cycle.
- At-a-glance summary page for all parameters in the programme.
- Compare your result with statistically robust consensus means.
- Identify acceptable and poor performance using fit-for-purpose performance indicators:
 - SDI
 - %Deviation
 - Target Score



Summary CSV Files

It is possible to receive an additional summary of your report statistics, acceptable limits and performance indicators as a .csv file for every sample (available for quantitative reports only).

Multi-Instrument Reports

Laboratories can register up to five instruments at no extra cost. Individual reports for each instrument plus a unique multi-instrument report are provided. The multi-instrument report plots the performance of each individual instrument on a single, colour coded Levey-Jennings chart, ensuring instant identification of any differences in instrument performance. Additional sample packs may be ordered as required if volume supplied is insufficient for the registered instruments.

Laboratory Group Reports

The group reporting facility enables laboratory groups or chains to monitor the performance of satellite sites. Each affiliated laboratory will receive their individual reports with the group supervisor also receiving a summary report comparing each laboratory in the network.

WEB-BASED DATA TRANSFER

RIQAS.Net offers easy, direct access for the submission of results and retrieval of reports direct from the RIQAS host server.

- Available in multiple languages.
- Confidentiality and security is maintained through the use of password protected access.
- Submit current, corrected and future results (normal policies apply), directly into the RIQAS database. Receipt of results is confirmed by e-mail.
- Multi-lingual registration identifier provides simple identification of multiple registrations.
- Additions and changes to assay details can be made quickly and easily online.
- Requests for new method, instrument and reagent codes can be made online.
- Reports are emailed in PDF format as soon as they are prepared.
- Reports for the previous two cycles can be downloaded from the website.
- View, print, store or distribute reports as you wish.
- Update your laboratory's certificate of participation details in multiple languages.
- All that is required is web access, Adobe Reader (for viewing reports) and a valid password to access the system.
- No additional software required.



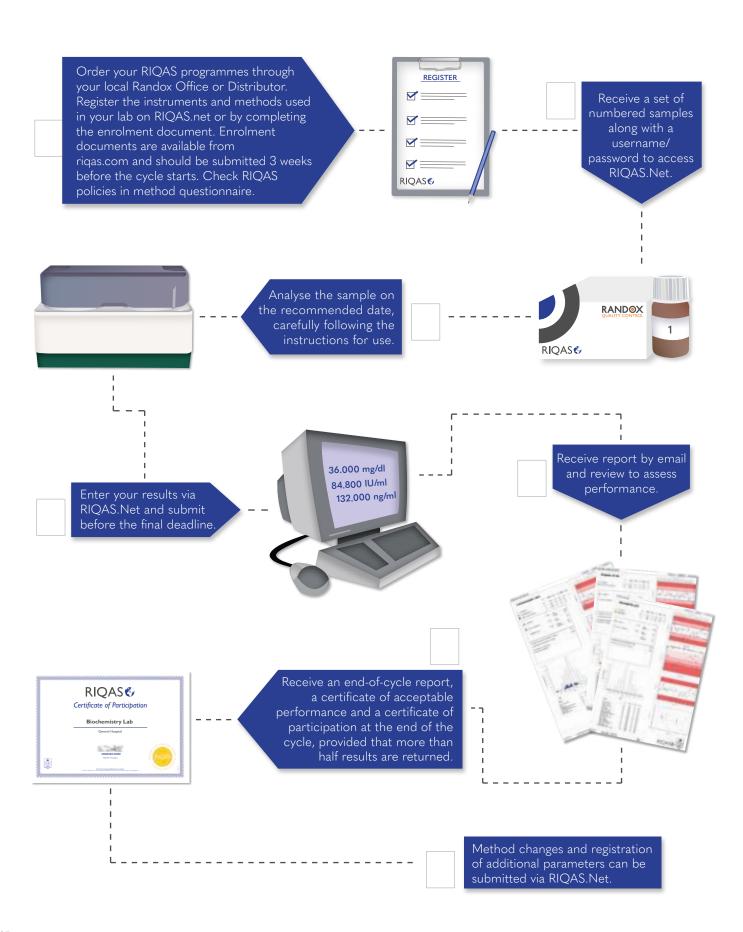






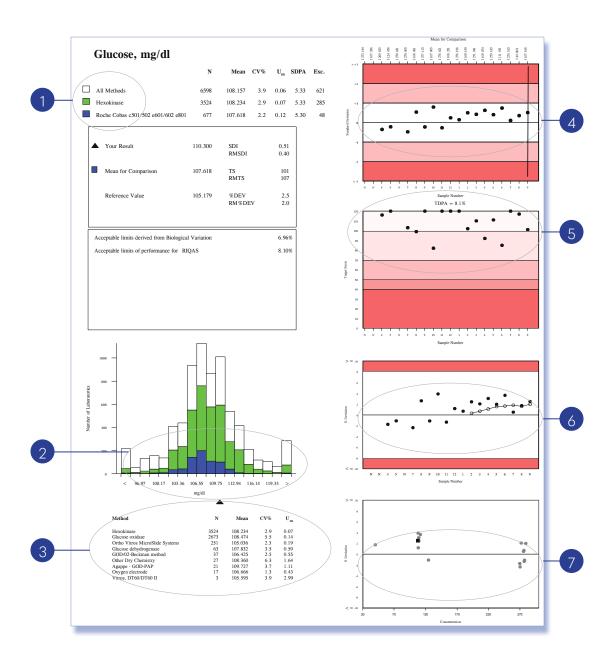
PARTICIPATION IN RIQAS

Participation in RIQAS follows these simple steps:



STANDARD REPORT

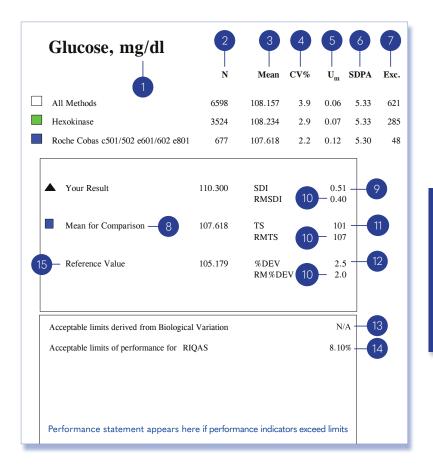
Performance data is presented in a one page format with up to seven sub-reports.



Text Section Chart:	Statistics for all methods, your method and instrument group (programme specific).
Histogram Chart:	Method and instrument comparison.
Multi-Method Stat Section Chart:	Enables assessment of the performance of each method.
Levey-Jennings Chart:	Details features of your laboratory's performance.
Target Score Chart:	This unique chart provides a numerical index of performance, allowing at-a-glance assessment.
%Deviation by Sample Chart:	Helps to identify trends and shifts in performance.
%Deviation by Concentration Chart:	Rapid assessment of concentration related biases.

TEXT SECTION

The text section summarises the statistical information for each parameter.



RIQAS performance indicators include SDI, Target Score and %Deviation.

Acceptable performance criteria:

SDI < 2 Target score ≥ 50 %Deviation ≤ defined acceptable limits

- Report is presented in your chosen unit.
- Number of returned results used to generate Mean for Comparison.
- 3 Average value of all laboratories' results.
- Coefficient of Variation.
- Uncertainty associated with the Mean for Comparison.

$$U_m = 1.25 \times SD$$

SDPA = Standard Deviation for Performance Assessment, calculated from the Target Deviation for Performance Assessment (TDPA) and the Mean for Comparison.

$$SDPA = \frac{TDPA \times Mean \text{ for Comparison}}{t-value \times 100}$$

t-value = factor which represents the % of poor performers reflected in the TDPA (t-value \sim 1.645 when \sim 10% laboratories achieve poor performance), SDPA is combined with $U_{\rm m'}$, where appropriate.

If U_m is less than ($0.3 \times SDPA$) then $SDPA_{adjusted} = SDPA$

- After statistical reduction, some results are excluded from the mean for comparison.
- Ideally this will be your instrument group mean. If N<5 for instrument group, your method group mean is selected as Mean for Comparison.
- Running Mean average of the last 10 performance indicators is used to monitor performance over time and concentration range.
- Target Score The closer a value is to 120, the better the performance.

$$TS = log_{10} \left(3.16 \times \frac{TDPA}{|\%Dev|} \right) \times 100$$

12 %Deviation from the Mean for Comparison -

$$\text{\%Dev} = \frac{\text{Your Result - Mean for Comparison}}{\text{Mean for Comparison}} \times 100$$

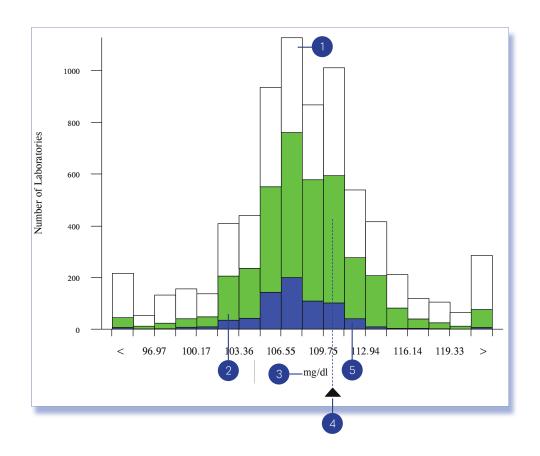
The closer the value is to zero, the better the performance.

- Biological Variation Not currently available please review online.
- Performance limit set for this parameter.
- Reference values quoted for information purposes, where applicable.

HISTOGRAM

The Bar Graph is intended as a quick visualisation of how your lab's result compares to the method mean, instrument mean and all method mean.







200 laboratories reported values between 101.77 & 103.36 in your method group.

3 RIQAS reports show your unit of measurement.

4 Your result is indicated by the black triangle.

41 laboratories reported values between 111.35 & 112.94 in your instrument group.

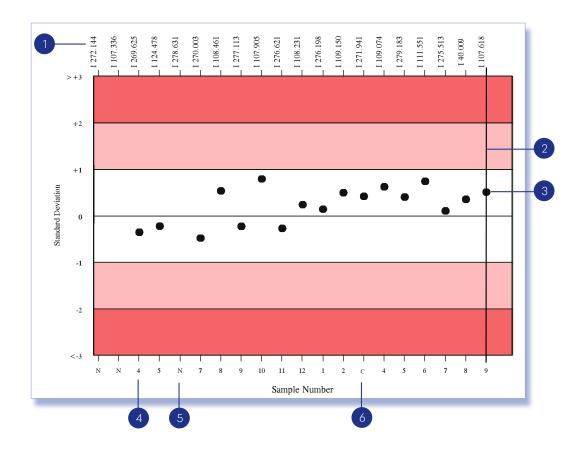
MULTI-METHOD STAT SECTION

This section provides an easy way of assessing the performance of other methods used to analyse the parameter in question.

Method	N	Mean	CV%	U m
Hexokinase	3524	108.234	2.9	0.07
Glucose oxidase	2673	108.474	5.5	0.14
Ortho Vitros MicroSlide Systems	251	105.036	2.3	0.19
Glucose dehydrogenase	63	107.832	3.5	0.59
GOD/02-Beckman method	37	106.425	2.5	0.55
Other Dry Chemistry	27	108.360	6.3	1.64
Agappe - GOD-PAP	21	109.727	3.7	1.11
Oxygen electrode	17	106.666	1.3	0.43
Vitros, DT60/DT60 II	3	105.595	3.9	2.99

LEVEY-JENNINGS CHART

SDIs reflect laboratory performance in relation to fit-for-purpose SDPAs and are useful to monitor performance over time. Acceptable performance is SDI < 2.



1 The Mean for Comparison for each sample is indicated at the top of the chart. This allows easy assessment of concentration related bias:

I: Instrument mean M: Method mean A: All method mean

This line indicates a change in registration details for this parameter.

Your SDI (Standard Deviation Index).

Sample number.

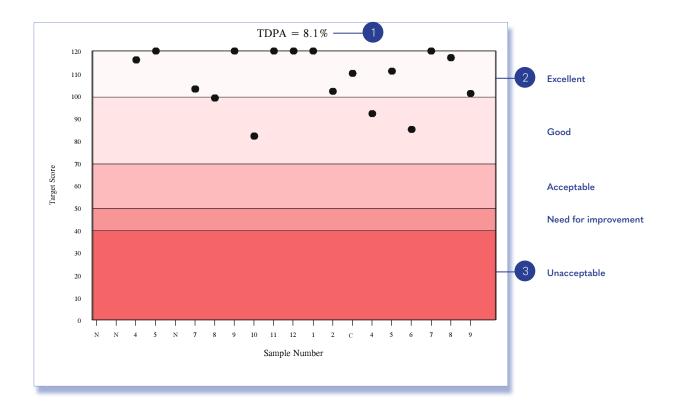
N = No result returned in time for this registration\sample.

C = Corrected results will be accepted for non-analytical errors. Corrected results will be accepted up to 4 weeks after the final submission deadline, on application, with evidence of analysis. Late results are only accepted if there has been a Randox error.

 $\ensuremath{\mathsf{R}} = \ensuremath{\mathsf{Incorrect}}$ results can be removed retrospectively on request.

TARGET SCORE CHART

The Target Score (TS) allows you to assess your performance at a glance. The TS relates the %Deviation of your result from the Mean to a Target Deviation for Performance Assessment (TDPA). TDPAs are set to encourage participants to achieve and maintain acceptable performance. TDPAs are fit-for-purpose performance criteria which are set taking guidance from ISO/IEC17043, ISO13528 and IUPAC. Target Deviations for Performance Assessment are also used to calculate the Standard Deviation for Performance Assessment (SDPA).



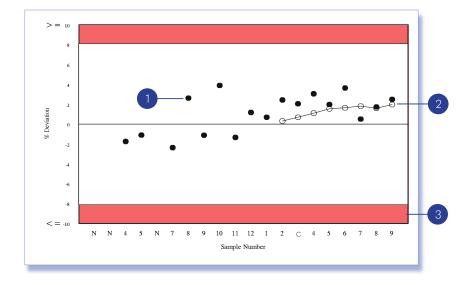
Heavy shading for values 10 to 50 signifies poor performance.

This is the upper deviation limit of performance for this parameter. TDPAs are reviewed regularly and deemed fit for purpose by the RIQAS Advisory Panel.

High scores ≥50 in the lighter shaded area represent acceptable, good or excellent performance.

%DEVIATION CHARTS

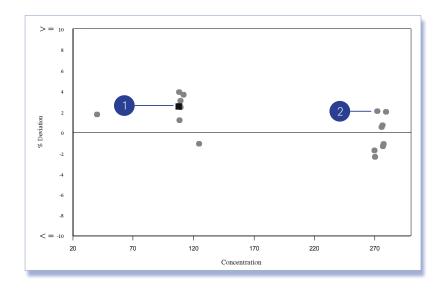
The %Deviation by sample chart helps to identify trends and shifts in performance.



- 1 %Deviation from Mean for Comparison.
- Plot of Running Mean %Deviations (average of the last 10 %Deviations for the sample indicated).

Acceptable limits of performance. These are defaulted to RIQAS TDPAs but can be set to e.g. biological variation or regulatory requirement on request.

The %Deviation by concentration chart enables rapid assessment of concentration related biases. Biases at low or high concentrations can be easily determined.



Current sample indicated by square.

2

%Deviation at specific concentration.

SUMMARY PAGE

Located at the back of the RIQAS Report, the Summary Page collates the key information, allowing participants to review the performance of all parameters at-a-glance.

OTHERS X	Mean for	Your	0.00	and the same	22025000	100000000	220	1215/12207	
Analyte	Comparison	Result	SDI	RMSDI	%DEV	RM%DEV	TS	RMTS	Performance
Albumin	2.120	2.230	1.00	0.37	2 5.2	2.0	72	107	
Alkaline Phospharase	17.705	19.000	0.61	-0.27	7.3	-2.9	93	105	
ALT (GPT)	12.387	12.000	-0.33	-0.47	-3.1	-3.8	119	103	
Amylase, Total	20.454	22.000	0.72	-0.29	7.6	-2.5	86	103	
AST (GOT)	11.976	11.000	-0.86	-0.03	-8.2	-0.4			4
Bicarbonate	8.203	6.900	-1.48	0.15	-15.9	1.5	54	98	
Bilirubin, Direct	0.251	0.380	2.57	2.64	51.3	47.2	31	29	A -1
Bilirubin, Total	0.701	0.640	-0.91	-0.29	-8.8	-2.9	76	101	
Calcium	6.074	6.020	-0.19	-0.40	-0.9	-1.8	120	92	
Chloride	76.353	77,000	0.30	-0.28	0.8	-0.8	120	98	
Cholesterol	112.696	110.000	-0.55	0.05	2.4	0.2	97	115	
CK, Total	111.659	111.000	-0.08	0.35	-0.6	2.5	120	107	
Creatinine	0.607	0.620	0.27	0.06	2.1	0.5	120	117	
Glucose	36.429	36.000	-0.26	-0.84	-1.2	-3.7	120	82	
HDL-Cholesterol	98.836	102.000	0.21	-0.04	3.2	-0.4	120	113	
tron	97.374	99,000	0.28	10.0	1.7	0.1	120	114	
Lactate		No Result	0.00000	Too Few		Too Few	N/A	N/A	
LD (LDH)	85.894	87.000	0.11	-0.70	1.3	-6.3	120	89	
Magnesium	1.313	1.390	0.79	-0.07	5.8	-0.5	82	107	
Phosphate, Inorganic	1.451	1.540	1.02	0.02	6.1	0.1	71	112	
Potassium	1.770	1.840	1.10	-0.25	3.9	-0.7	67	99	
Protein, Total	3.850	3.830	-0.11	0.07	-0.5	0.3	120	114	
Sodium	112.537	114.000	0.58	-0.01	1.3	-0.0	95	104	
пвс	133.143	133.000	-0.01	-0.01	-0.1	-0.1	120	117	
Frig Total	23.626	24.000	0.18	-0.09	1.6	-0.6	120	114	
Urea	5.872	5.000	-2.02	-0.57	-14.9	-4.0	41	95	A
Uric Acid (Urate)	3.135	3.100	-0.20	-0.44	-1.1	-2.4	120	107	
			- Factoria		1				
			ORMS	DI -0.05	OR	M%DEV 0.8	ORM	TS 102	



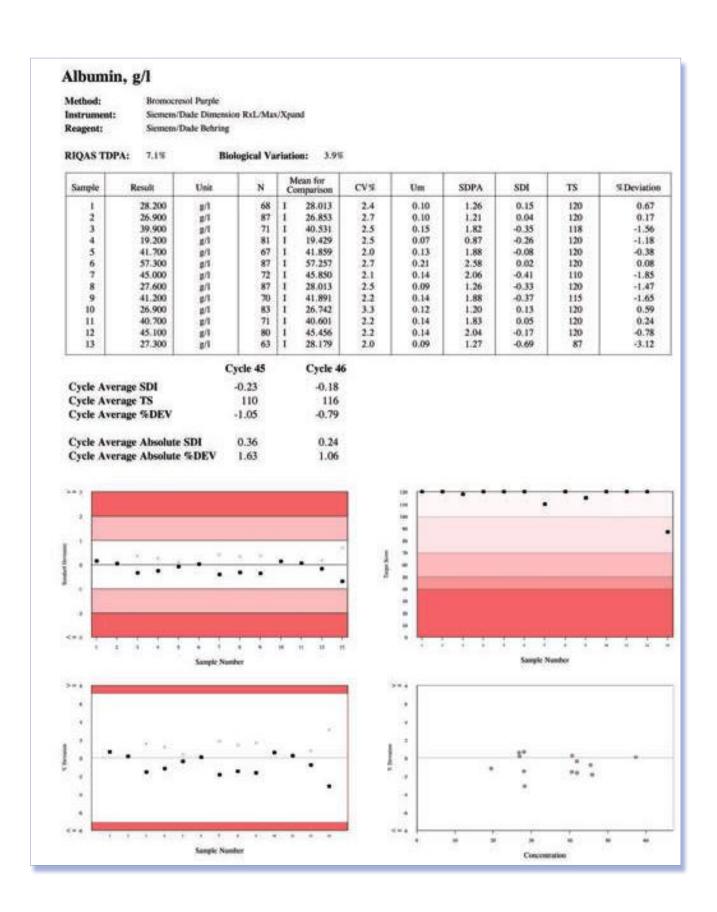
%DEV > acceptable limits set

- 2 RMSDI is the Running Mean of the 10 previous SDIs (if fewer than 10 results on file, "Too Few" is printed).
- 3 RM %DEV Average of the last 10 %DEV for this parameter.
- 4 RMTS Average of the last 10 Target Scores for this parameter.

- All poor performance is highlighted in bold and underlined.
- Overall RMSDI = average RMSDI for this sample distribution.
- Overall RM%DEV = average RM%DEV for this sample distribution.
- 8 Overall RMTS = average RMTS for this sample distribution.

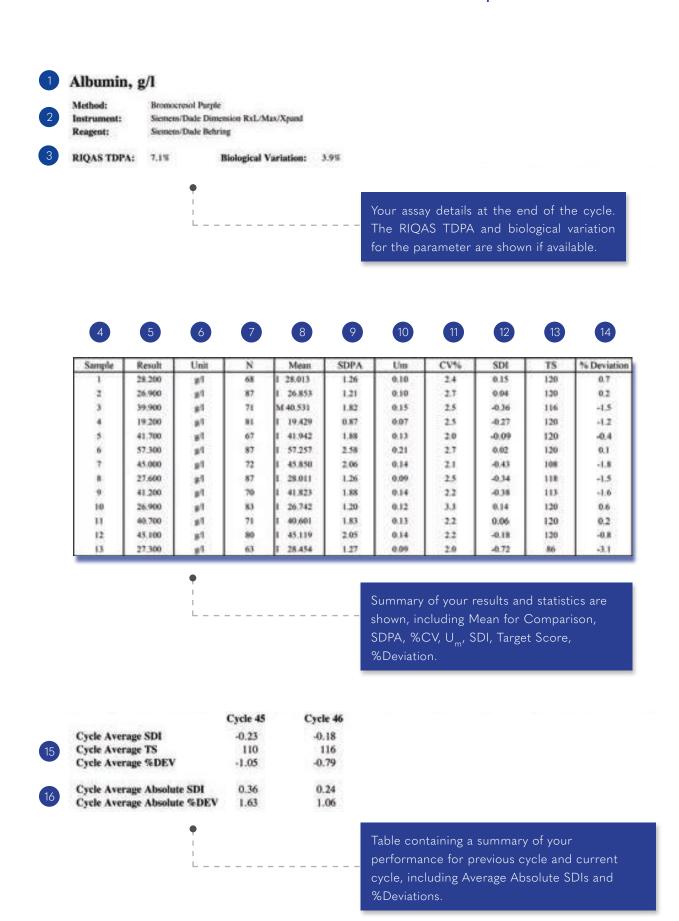
END-OF-CYCLE QUANTITATIVE REPORT

The End-of-Cycle Report is sent to labs receiving standard reports at the end of each cycle and provides a complete summary of statistics. Results can also be compared to the previous cycle.



END-OF-CYCLE REPORT TEXT SECTION

The text section summarises the statistical information for all samples.

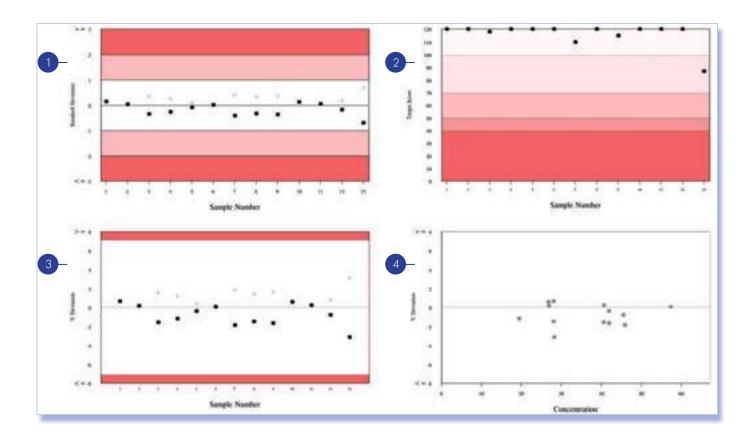


END-OF-CYCLE REPORT TEXT SECTION

deport presented in your chosen unit	Deviation Index, Target	erformance indicators – Standard Score and %Deviation.	
ır assay details as of the last sample		(Sum of SDIs returned for the completed cycle)	
AS TDPA and Biological variation	Cycle Average SDI =	(Number of samples returned in cycle)	
mple number			
esults for each sample	Cycle Average	(Sum of your Target Scores returned for the completed cycle)	
it your result was returned in	Target Score =	(Number of samples returned in cycle)	
mber of results used for statistical analysis	Cycle Average	(Sum of your %Deviations returned for the completed cycle)	
n for Comparison (including comparison level)	%Deviation =	(Number of samples returned in cycle)	
A = Standard Deviation for performance assessment		•	
ertainty of Mean for Comparison	%Deviation. Absolute varegardless of the sign. T	ute values of your SDI and alues show how far a value is from zero his is an indication of the magnitude	
oefficient of Variation (%)	of accuracy.	/C	
r Standard Deviation Index	Cycle Average	(Sum of your Absolute SDIs returned for the completed cycle)	
r Target Score	Absolute SDI =	(Number of samples returned in cycle)	
Your %Deviation	Cycle Average	(Sum of your Absolute %Deviation returned for the completed cycle	
	Absolute %Deviation		

END-OF-CYCLE CHART SECTION REPORT

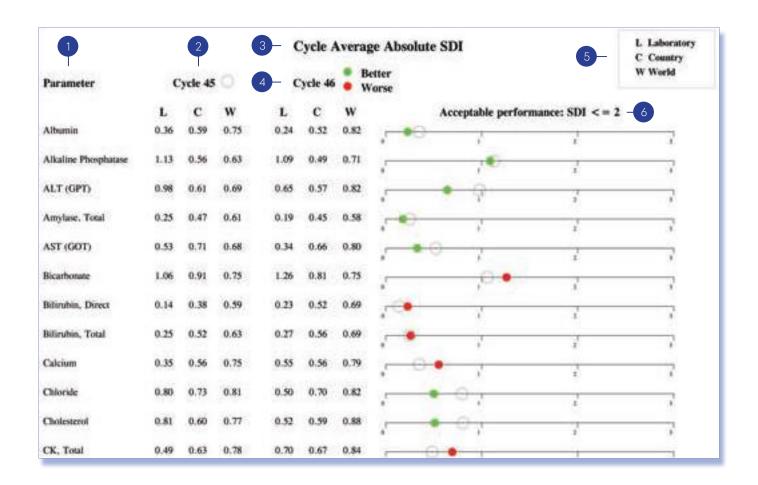
Your results for current cycle shown in various diagrams.



Levey-Jennings chart	Shows your SDIs for a full cycle.
	 Shows SDI (positive and negative) x Shows absolute SDI
Target Score chart	Shows your Target Scores for a full cycle.
%Deviation by sample chart	Shows your %Deviations for a full cycle.
	Acceptable limits equal to TDPA unless alternative limits are registered by the lab. • Shows %Deviation (positive and negative) x Shows absolute %Deviation
%Deviation by Concentration chart	Shows your results for a full cycle.

END-OF-CYCLE CURRENT & PREVIOUS CYCLE ABSOLUTE SDIs REPORT

Based on the cycle average absolute SDI, this chart provides a visual representation of your laboratory's performance compared to the previous cycle.



Parameter list	List of all parameters registered.		
Results for previous cycle	Indicated by open circle on the chart.		
Report title - Cycle Average Absolute SDI	This shows your performance this cycle compared to the previous cycle.		
Results for current cycle	Indicated by a closed circle on the chart.		
Legend	Cycle Average Absolute SDIs are shown for:		
	L Your results throughout the cycleC All labs within your own countryW All labs Worldwide		
Graphical representation of Absolute SDIs	Acceptable performance is < 2.		
	If Absolute SDI for current cycle is less than that for the previous cycle, this is indicated by a green circle.		
	If Absolute SDI for current cycle is greater than that for the previous cycle, this is indicated by a red circle.		
	The closer the circle is to zero, the better the performance.		

END-OF-CYCLE CERTIFICATE OF PERFORMANCE REPORT

An End-of-Cycle report will be issued for all registrations. However, the Certificate of Performance will only be available for parameters where results for at least 50% of samples in the cycle have been returned. Labs joining after the beginning of the cycle will only receive the Certificate of Performance if they meet this criterion. Any parameters not included on the Certificate of Acceptable Performance will be listed on the Notification of Unacceptable Performance.



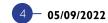
RANDOX INTERNATIONAL QUALITY ASSESSMENT SCHEME

CERTIFICATE OF ACCEPTABLE PERFORMANCE

Laboratory Name
Laboratory Address
Country

2 LABORATORY REF. NO. 111/A





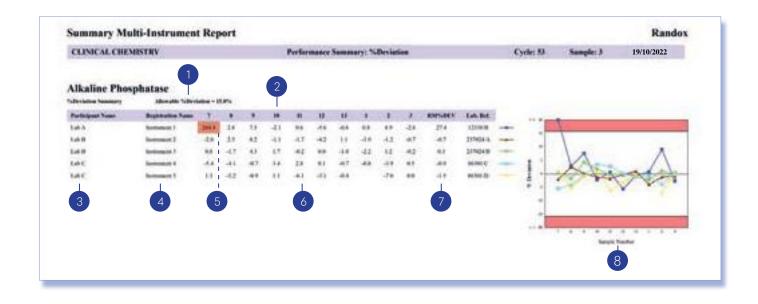
This is to certify that the above participant took part in a cycle of external quality assessment and achieved an acceptable level of performance (Cycle Average Absolute SDI < 2) for the following parameters:

5	6 - Cycle Average Absolute SDI
Albumin - Bromocresol Green - Abbott Alinity i	1.61
Alkaline Phosphatase - AMP optimised to IFCC - Abbott Alinity c	0.80
ALT (GPT) - Tris buffer without P5P - Abbott Alinity c	1.20
Amylase, Total - Other 2-chloro-pNPG3 - Abbott Alinity c	0.99
AST (GOT) - Tris buffer without P5P - Abbott Alinity c	0.50
Bile Acids - Enzymatic Colorimetric - Abbott Alinity c	0.49
Bilirubin, Direct - Diazo with Dichloroanaline - Abbott Alinity c	0.36
Bilirubin, Total - Diazo with Dichloroaniline - Abbott Alinity c	0.72
Calcium - Arsenazo - Abbott Alinity c	0.69
Chloride - ISE, direct - Abbott Alinity c	1.08
Cholesterol - Cholesterol Oxidase - Abell Kendall - Abbott Alinity c	0.63
CK, Total - Abbott CK-NAC (IFCC) - Abbott Alinity c	0.47
Creatinine - Alkaline picrate no deproteinisation - Abbott Alinity c	1.42
GGT - Gamma glut3-carb4-nitro Abbott Alinity c	0.83
Glucose - Hexokinase - Abbott Alinity c	0.75

1	Full registration address	Your full registration address details.
2	Your lab reference number	Used to identify each lab.
3	Programme / cycle number	Programme and current, completed cycle number.
4	Date	Date End-of-Cycle report is issued.
5	Parameters	List of parameters including the assay details for which cycle absolute SDI is < 2 .
6	Average Absolute SDI	Your Cycle Average Absolute SDI.

MULTI-INSTRUMENT REPORT

Register up to five instruments per programme at no extra cost. In addition to a standard report for each instrument, a multi-instrument report is also provided allowing comparitive performance assessment.



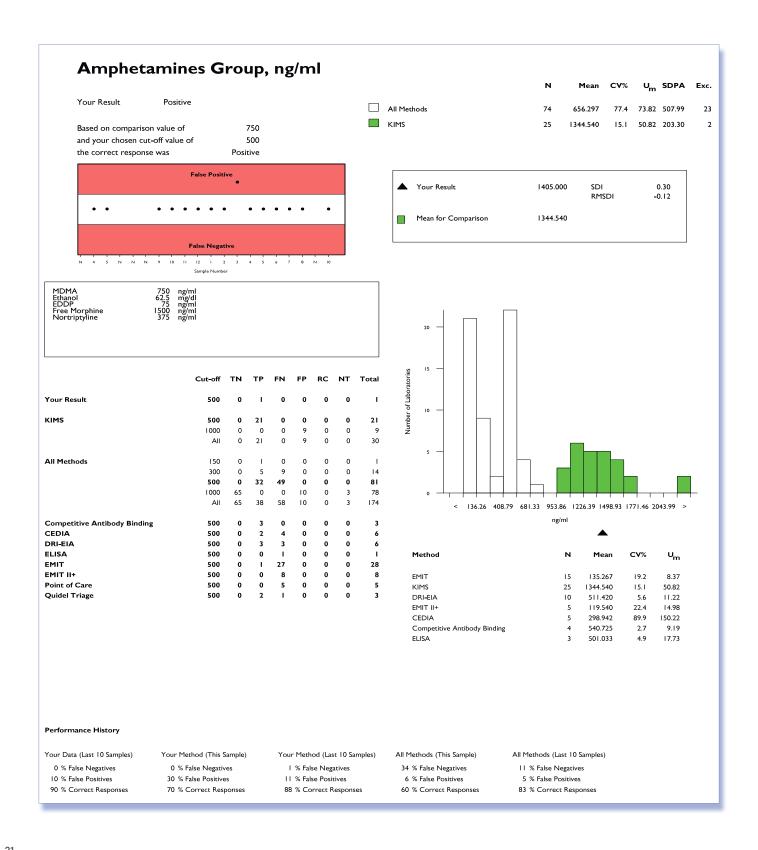


URINE TOXICOLOGY REPORT

Laboratory performance is presented in both quantitative and qualitative screening formats, allowing for easy interpretation at-a-glance.

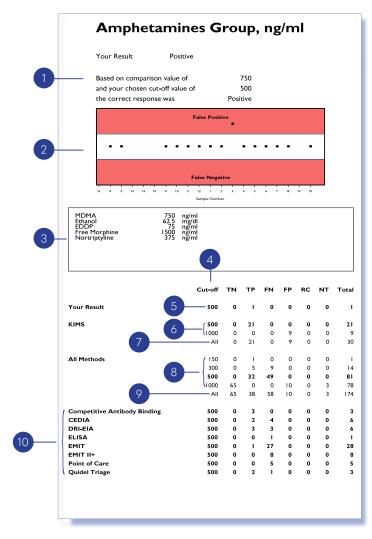
Screening Section

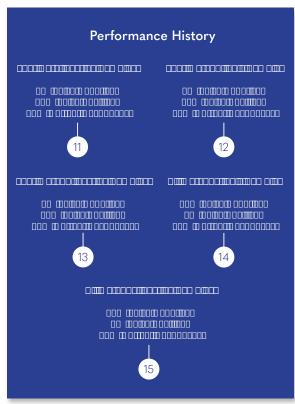
Quantitative Section



URINE TOXICOLOGY REPORT SCREENING SECTION

Qualitative comparison of screening results available for each parameter.



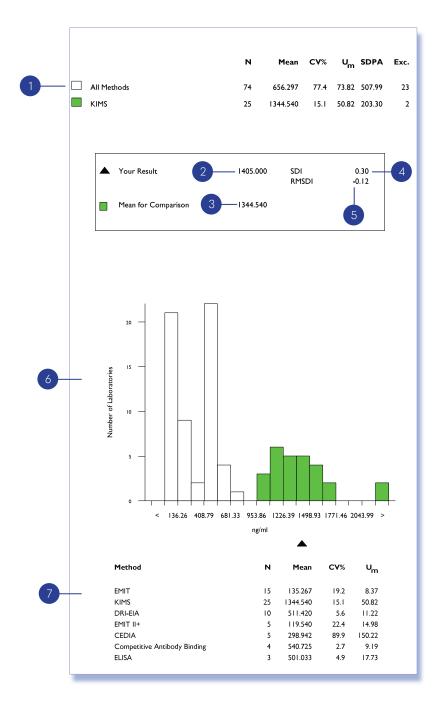


- Text section shows the correct response for the lab based on a comparison between the comparison value and the lab's cut off value.
- Screening Results: This chart is a quick visualisation of your performance over the last 20 samples. A result in the white section indicates a correct response. A result in the upper red section indicates a False Positive response, and a result in the lower red section indicates a False Negative response.
- Comment section for RIQAS to provide your laboratory with additional relevant information regarding this sample, such as spiked metabolite concentration.
- Screening result response categories. All abbreviations indicated at the bottom of the report page.
 - Key
 - TN true negative TP true positive FN false negative FP false positive RC sent for confirmation NT not tested
- Screening Summary: Your screening result shown in the appropriate response category and your cut off for this sample.
- Screening results for all cut-offs returned for this sample within your method group.

- 7 Total screening results over all cut-offs for your laboratory's method.
- Screening results for all cut-offs returned for this sample over all methods.
- Total screening results over all cut-offs for all methods.
- Oscreening results for other methods using same cut-off as your laboratory.
- Performance history for this parameter, based on previous 10 samples.
- Performance of your method over all cut-offs for this sample.
- Performance history of your method over all cut-offs, based on the previous 10 samples.
- Performance of all methods over all cut-offs for this sample.
- Performance history of all methods over all cut-offs, based on the previous 10 samples.

URINE TOXICOLOGY REPORT QUANTITATIVE SECTION

Quantitative statistical comparison available for each parameter.

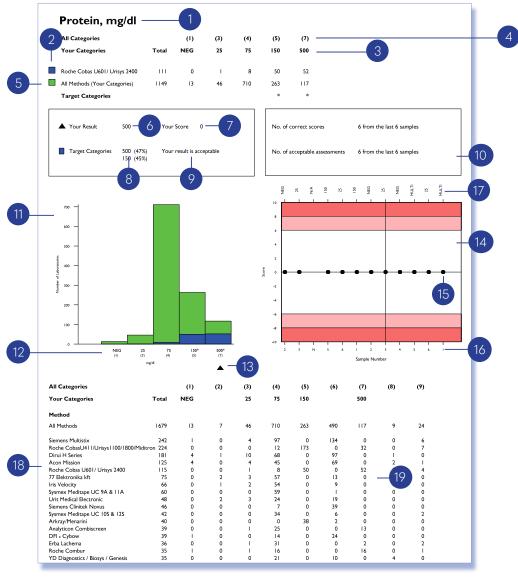


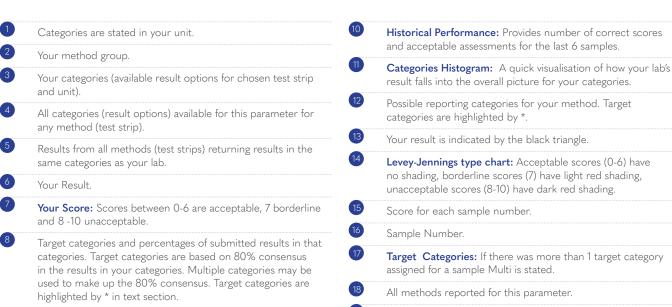


- Running mean SDI = average of last 10 SDIs for this parameter (If fewer than 10 results, "Too Few" is printed).
- Quantitative Results Histogram: This graph provides a quick visualisation of how your quantitative result falls into the overall picture for all methods and your method group.
- All available method statistics for this sample.

URINALYSIS REPORT

Your performance for each parameter is presented in a simple, convenient report.





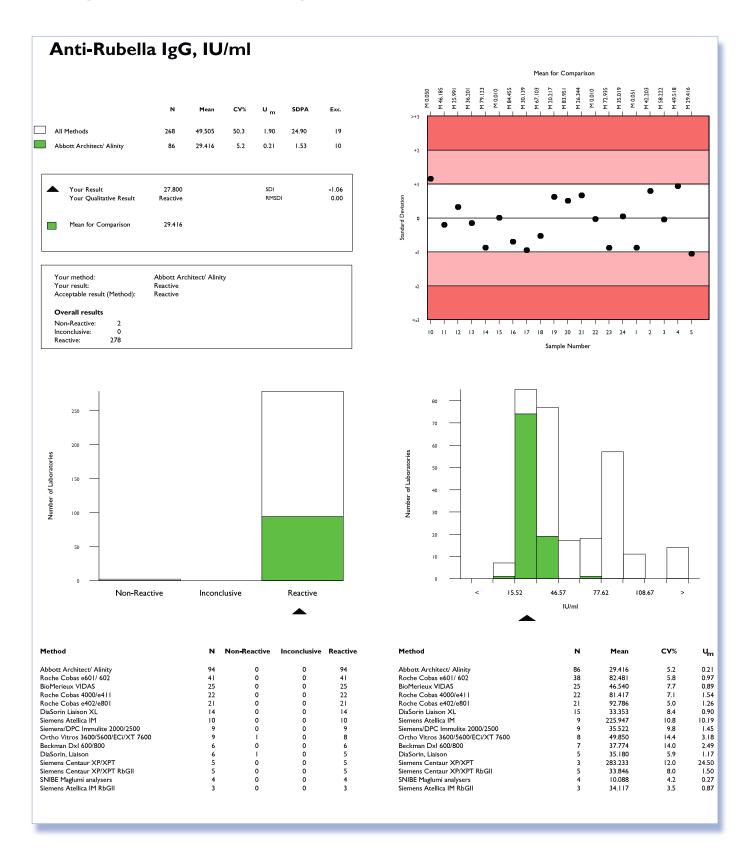
Performance Statement.

Detailed summary of results: This table enables you to see

how you compare to all other results.

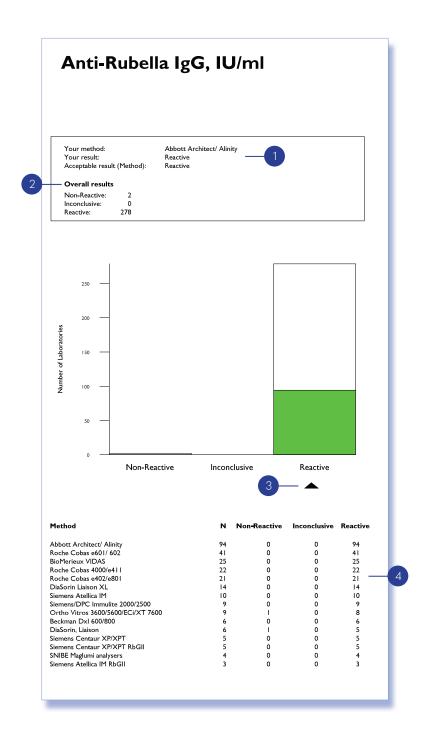
SEROLOGY REPORT

Laboratory performance is presented in both quantitative and qualitative screening formats, allowing for easy interpretation at-a-glance.



SEROLOGY: QUALITATIVE REPORT

Your performance for each sample is presented in a convenient single page per parameter report format.

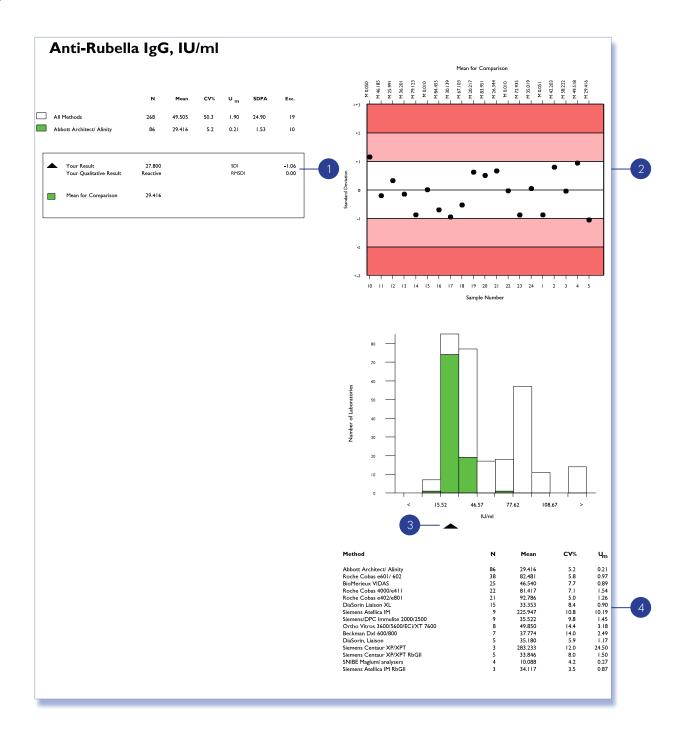


- 1 Your qualitative result and chosen method are presented along with the acceptable result based on an 80% consensus. This consensus will be at the method level if there are >=5 labs in the group or if there are <5 labs, will be at the all method level.

 2 Overall Summary shows the number of results for this
- Overall Summary shows the number of results for this parameter and sample which are non-reactive, inconclusive or reactive.
- Your Result is shown as a black triangle on the category chart compared to other laboratories in groups:
 - All Methods Your Method
 - Summary shows performance of all the methods used to analyse the parameter.

SEROLOGY: SCREENING (QUANTITATIVE) REPORT

Your performance for each sample is presented in a convenient single page per parameter report format.





2 Levey-Jennings chart - Your SDIs for previous 20 samples.

Your result is presented on the bar graph as a black triangle, showing how you compare to:

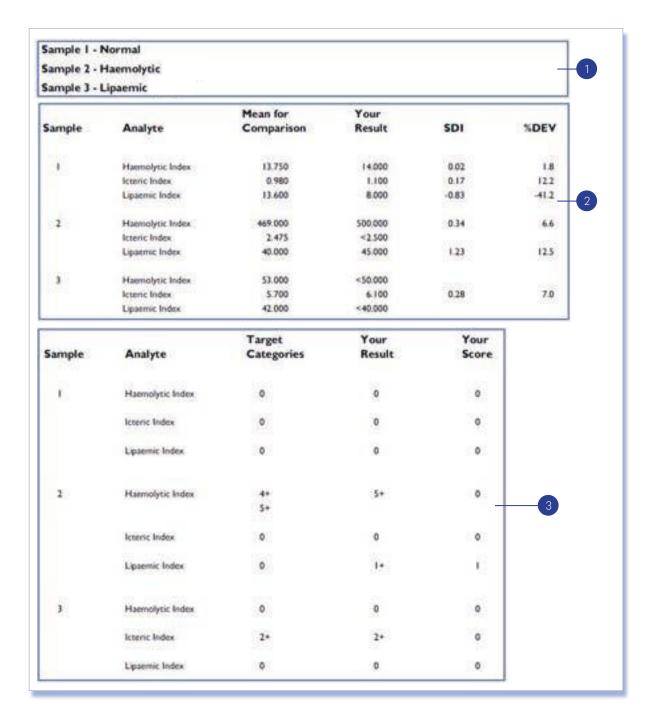
All Methods

Your Method

Multi Method Statistics section provides an easy way of assessing the performance of the methods used to analyse the parameter.

SERUM INDICES: SUMMARY PAGE

The RIQAS Serum Indices EQA programme is designed for the pre-analytical assessment of Haemolytic, Icteric and Lipemic (HIL) interferences. HIL parameters include the option of quantitative or semi-quantitative reporting. Interpretation of chemistry parameter results is also included for a number of parameters. The summary page collates the key information on both the quantitative and qualitative results for the HIL parameters.





The next section shows the summary of the quantitative results for the Serum Indices and your performance (SDI and %DEV) for each sample.

The final section shows the summary of the semi-quantitative results for the Serum Indices. This includes the target categories based off an 80% consensus in the results, your result and your score for each of the samples.

SERUM INDICES REPORT

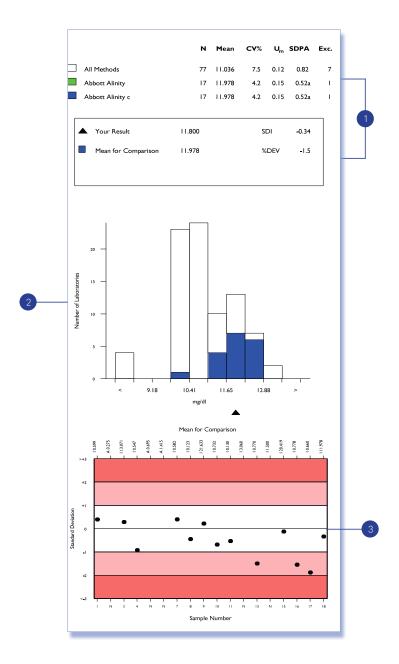
The summary section is followed by report pages for the 3 serum indices parameters. There will be 3 pages for each index – one for each sample.



Under the Serum Index parameter name the report will display the sample status e.g. if the sample should be flagging as haemolytic, icteric or lipaemic. As with all reports, the results contained within the report pages will be in the unit selected by the lab during the registration process.

SERUM INDICES REPORT: QUANTITATIVE SECTION

Quantitative comparison of results available for each index.



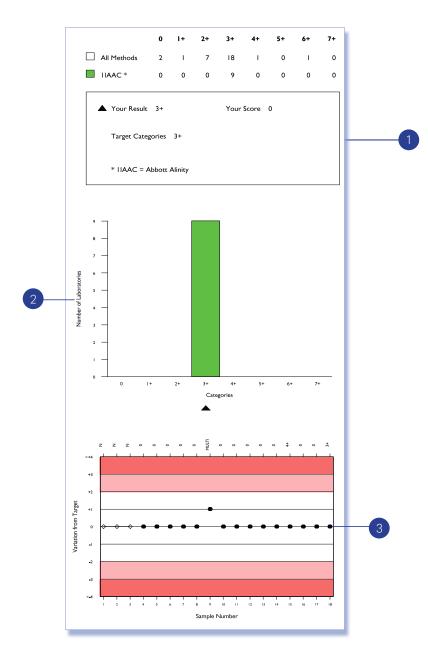
Text Section: In the text section you will see the All method, method and instrument means for comparison in addition to the respective statistics. Below this you will see your result, your Mean for comparison and your performance (SDI and %DEV) for this specific sample. For samples which do not hit specific flags for the indices, a large proportion of analysers will have a less than (<) setting. On a RIQAS report these will be counted in the excluded column. As one sample in each distribution will be a normal sample, it is likely there will be a large number of (<) results returned for these samples so we are indicating in this section the percentage of results that have been returned as a < or > result to allow labs to see if the number of excluded results is high that there is an explanation for this.

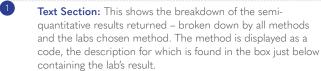
Histogram: As with other RIQAS reports, this histogram shows an overview of the spread of the results that have been returned for each level of comparison (all method (white), method (green) and instrument (blue)). The lab's result is indicated by the black triangle at the bottom of the chart.

Levey Jennings style chart: The Levey Jennings chart will display the lab's SDIs. These reflect laboratory performance in relation to SDPAs and are useful to monitor performance over time. Acceptable performance is SDI < 2. The sample numbers will be displayed along the bottom of the chart and the Means for Comparison including the level will be displayed along the top of the report.

SERUM INDICES REPORT: SEMI-QUANTITATIVE SECTION

Semi-quantitative comparison of the results available for each parameter.





The lab's result, target categories (based on an 80% consensus), and the lab's score based on how many categories away from the target category the result is, are displayed below the breakdown of each category.

2 Histogram: The histogram shows a pictorial breakdown of the results returned for each category. The lab's result is indicated by the black triangle at the bottom of the chart.

Levey Jennings chart: This chart will display the lab's score or variation from the target category.

The sample numbers will be displayed along the bottom of the chart and the target categories along the top. If there is more than one target category, the chart will display the word 'Multi'.

SERUM INDICES REPORT: CHEMISTRY PARAMETER PAGE

Following the report pages for the 3 Serum Indices, there are the report pages for any chemistry parameters labs have registered for. There are 2 pages for each parameter, one showing the comparison between the first sample (the normal sample) and the second sample and the second page showing the comparison between the first and third sample respectively.



Sample Status: Under the chemistry parameter name the report will display the sample status e.g. if the sample should be flagging as haemolytic, icteric or lipaemic for the 2 samples being compared. As with all reports, the results contained within the report pages will be in the unit selected by the lab during the registration process.

The rest of the report page shows the same information for each of the 2 samples being compared.

The first sample of the 3 in each distribution will be the normal sample, the other 2 may or may not flag for one or more of the Indices.

Text Section: In the text section you will see the all method, method and instrument means for comparison and the respective statistics. Below this you will see you result, your Mean for comparison and your performance (SDI and %DEV) for this specific sample.

The % shift in the Means for Comparison between the normal and the affected sample is displayed in the results box for the second and third sample.

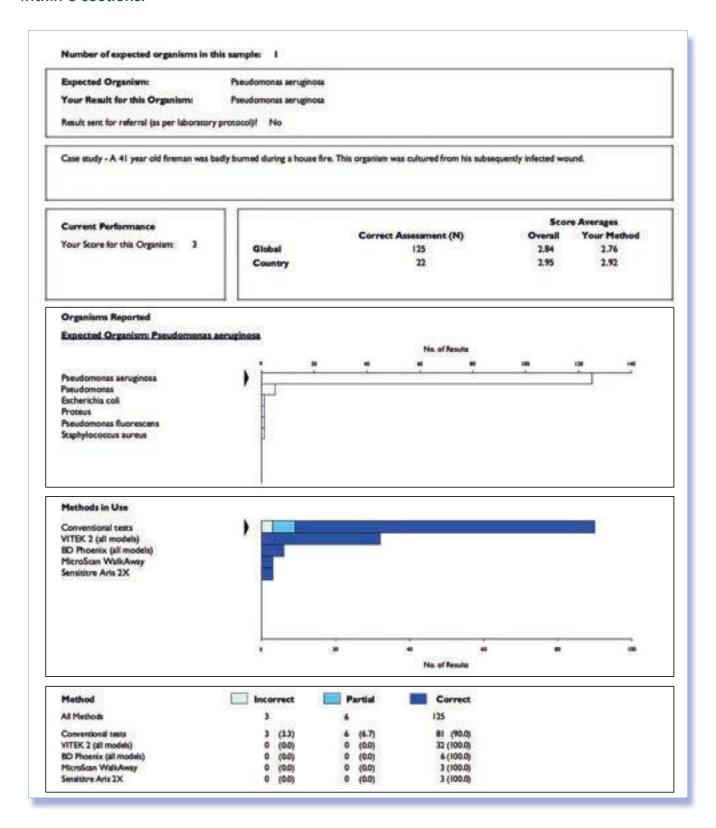
3 Histogram: As with other RIQAS reports, this histogram shows an overview of the spread of the results that have been returned for each level of comparison (all method (white), method (green) and instrument (blue)). The lab's result is indicated by the black triangle at the bottom of the chart.

Method Summary Section: As with other RIQAS reports, this section provides an easy way of assessing the performance of other methods used to analyse the parameter in question. The code at the beginning of the description is the key to the following section - Reporting of the Result based on Serum Indices flag.

Reporting of the Result based on Serum Indices flag:
Depending on the Index that has been flagged, the lab may choose to not report the result to the clinician. In this section the lab can report on whether they would report the result for this parameter based on the result from the Serum Indices analysis.

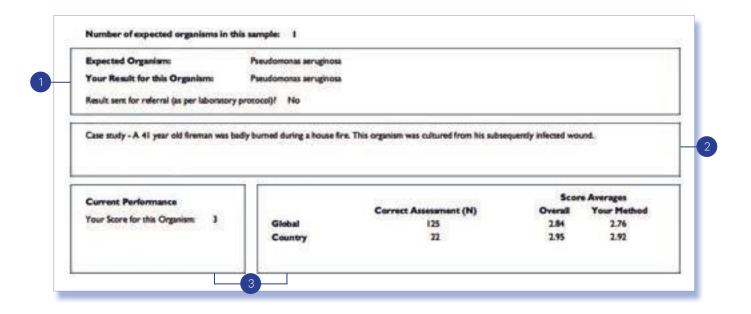
BACTERIAL IDENTIFICATION REPORT

Presented in a convenient single report, all results for the current sample will be displayed within 6 sections.



BACTERIAL IDENTIFICATION REPORT

Participants can quickly and easily identify their performance for the current sample against their peers across geographic locations and those utilising same methodologies. Each section is explained in further detail below.



- Sample Results: This shows the expected organism, the labs selected organism and information on the laboratory protocol being followed. Information on the lab's protocol will have an effect on the scoring for this sample.
- Case Study: Clinical details are provided for each sample.
- Performance Scoring: This will contain the lab's specific score for this sample. It will also show the correct assessments and overall scoring with the lab's country and globally.

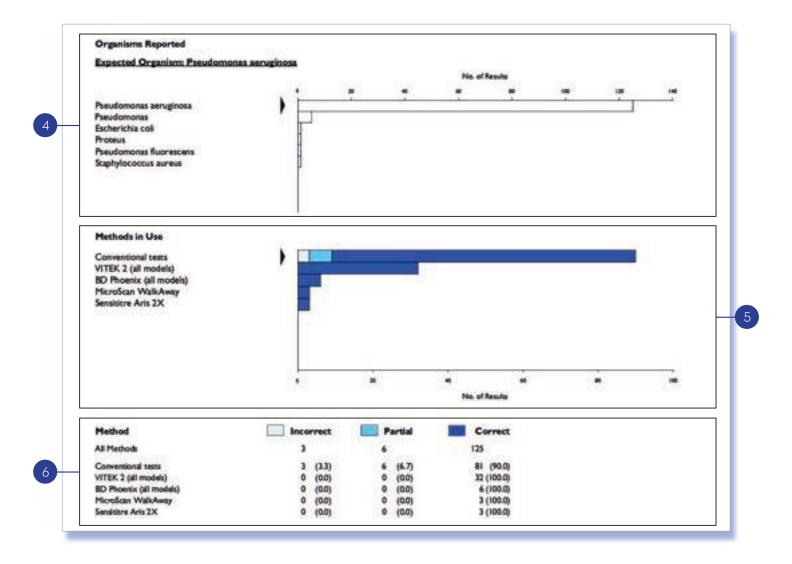
If sample is NOT sent for referral, scoring is marked out of 3

- Correct Genus + species = 3
 Correct Genus + species is blank, if this is lab protocol = 3
- Correct Genus + species is blank = 1
- Incorrect Genus and species but correct Gram stain = 0
- Incorrect Genus, species and Gram stain = -1

If sample is sent for referral, scoring is marked out of 2

- Correct Genus + species = 2
- Correct Genus + species is blank, if this is lab protocol = 2
- Correct Genus + species is blank = 1
- Correct Genus + incorrect species = 1
- Incorrect Genus and species but correct Gram stain = 0
- Incorrect Genus, species and Gram stain = 0

BACTERIAL IDENTIFICATION REPORT



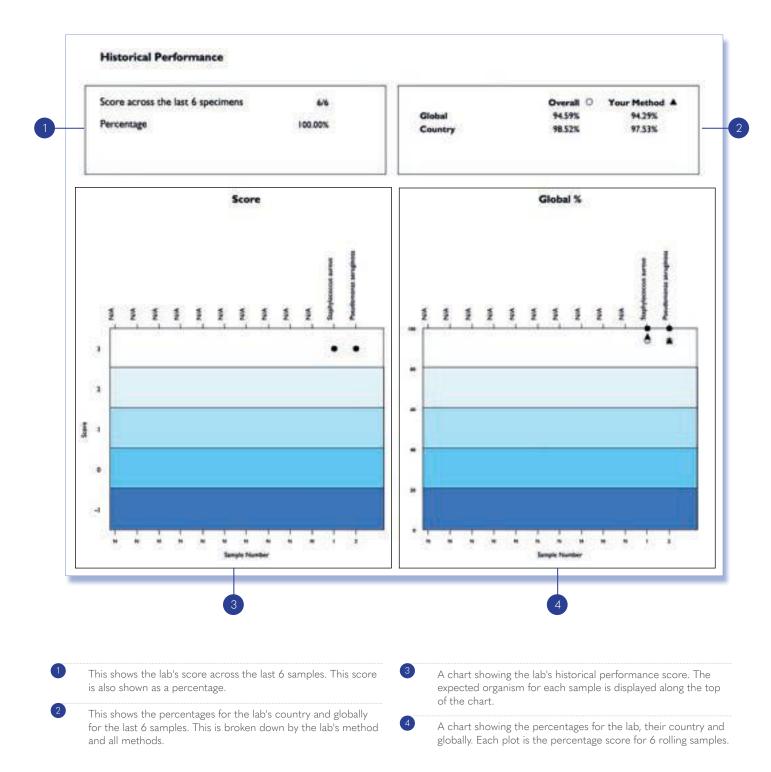




Method Summary Section: This is a table providing the number of responses by method. The figures in brackets indicate the percentage of responses for each method.

BACTERIAL IDENTIFICATION - HISTORICAL PERFORMANCE

Track your performance across the previous 12 specimens using this one-page report.



ANTIMICROBIAL SUSCEPTIBILITY TESTING

Antimicrobial susceptability testing table details all reported antibiotics for current sample and AST response.

Antimicrobial Susceptibility Testing					
Organism: Pseudomonas aeruginosa					
Antibiatic	Resistant	Intermediate	Sensitive	Your Result (Score)	Target
Amikacin	2	2	107	Sensitive (2/2)	Sensitive (Y)
Amoxicitie	1	0			Too Few
AmoxicRin/Clarelinic Acid	1	0			Too Few
Ampicilin	6	0	30		Resistant (A)
Ampictin/Subsctam	1	0	1		Too Few
Azithromycin	0	.1	۰		Too Few
Aztreorum	10	9	8.5	Insermediate (N/A)	N/A
Cefacolin	1	1			Too Few
Cefepime	2	25	68	Intermediate (2/2)	Intermediate (
Cefxime	2	0	0		Too Few
Cefodine		2	3		Too few
Celoperscone	0	0	1		Too few
Celoperazone/Sulbactam	0	0	1		Too Few
Cefotoxime		0			Resistant (A)
Cefaxitin	1.	0	1.		Too Few
Celpodoxime	1.	0			Too Few
Celtaridime	1	29	80	Intermediate (1/2)	Sensitive (A)
Celtaridine/Aviboctam	0	0	5		Sensitive (A)
Cefcologane/Tazobactum	0	1			Sensitive (A)
Ceftriaxone	2	0	•		Too Few
Cefuroxime	1	0			Too Few
Ciproficiacin	0	33	85	Intermediate (2/2)	Intermediate (
Clindarrycin	0	0			Too Few
Colum	1		17		Sensitive (Y)
Conmoxasole	1	0			Too Few
Doripenam	0	0			Sensitive (A)
Doxycycline	1	0	•		Too Few
Ertapeners	2	0			Too few
Erythromycin	0	0	1		Too few
Fodomycin	4	0	•		Too few
Gentamich		5	80	Sensitive (2/2)	Sensitive (Y)
Imipenem	13	27	57	Intermediate (2/2)	Intermediate (
Levofloxacin	3	15	25	Intermediate (N/A)	NIA

- Target based on 80% agreement or at least 30% more than next common response
- Target requires at least 5 responses or else 'Too Few' is recorded
- Target is based initially on lab's guideline (Y) followed by all guidelines (A) if lab's guideline does not fulfil criteria. If neither of these are met then target recorded as N/A
- Participant responses are recorded for each antibiotic
- Participant responses from an incorrectly or partially identified organism are not included in totals

Scoring

- If target is Sensitive
 - Response of sensitive = 2 Response of intermediate = 1
- Response of resistant = 0
- If target is Resistant

Response of sensitive = -1
Response of intermediate = 1
Response of resistant = 2

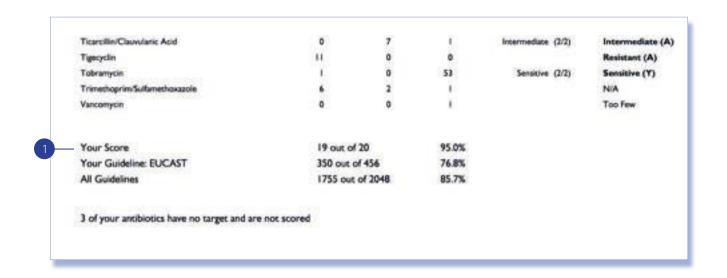
- If target is Intermediate
- Response of sensitive = 1
 Response of intermediate = 2

Response of resistant = 1

• No scoring possible if target is N/A or Too Few

ANTIMICROBIAL SUSCEPTIBILITY TESTING

Antimicrobial susceptability testing table details all reported antibiotics for current sample and AST response.





• A total score for the participants responses that had targets is provided for the participant

Your Score

• A total score for all antibiotics that had targets is provided for

Your Guidelines
All Guidelines

Cefepime				
Guideline	Resistant	Intermediate	Sensitive	% Agreement
CLSI	0	0	31	100.0%
EUCAST	1	16	7	66.7%
Unspecified	1	9	30	75.0%

Quideline Analsyis

• For each antibiotic that has a target assigned, a breakdown of the responses per guideline is provided

MONITORING EQA PERFORMANCE

Each EQA report should be evaluated and any poor performance investigated. A step by step approach should be adopted consisting of the following three steps:

1. Investigate the source of the problem

In order to identify the source of the problem, it is useful to be aware of the most common causes of poor EQA performance. Errors can occur at any stage of the testing process; however, EQA is most concerned with detecting analytical errors i.e. errors that occur during the analysis of the sample.

Most analytical errors can be easily divided into three main areas; clerical errors, systematic errors and random errors. Systematic errors result in inaccurate results that consistently show a positive or negative bias. Random errors, on the other hand, affect precision and result in fluctuations in either direction.

It may be possible that, after extensive investigations, the root cause of the poor performance cannot be established. Poor performance for a single sample could be attributed to random error. If poor performance has been noted for several samples, a systematic error is the most likely cause and the analytical process should be reviewed.



Clerical errors

- Transcription errors
- Incorrect units used
- Incorrect sample tested
- Incorrect method classification
- Calculation/conversion error

Systematic errors

- Sample/Reagent prep/handling
- Reagent/calibrator/standardisation change
- Instrument/reagent/calibrator fault
- Inexperienced operators
- Reagent deterioration
- Inappropriate method

Random errors

- Bubbles in reagent
- Bubbles in reagent/sample pipette
- Temperature fluctuations
- Poor pipetting technique
- Poor operator technique

The flowchart (page 29) is designed to help you investigate any apparent poor performance.

2. Implement corrective actions

Some errors can be readily recognised as simple clerical errors and easily corrected. If there is evidence of systematic or random error however more detailed corrective actions must be taken.

Systematic Error

In the event of a systematic error, the following suggested actions may help to resolve the problem:

- Perform instrument maintenance Review reagent/sample storage
- Recalibrate instrument
- Check pipettes

- Prepare fresh reagents & re-run sample
- · Perform staff training

Random Error

If all possible causes have been excluded, a single unacceptable result is most likely due to random error. Rerun the sample; if the result of repeat analysis is acceptable then corrective action is not required. If the issue persists, investigate possible sources of systematic error.

3. Check the effectiveness of corrective actions

The effectiveness or impact of any corrective actions taken can be assessed by continuing to monitor analytical performance over time.

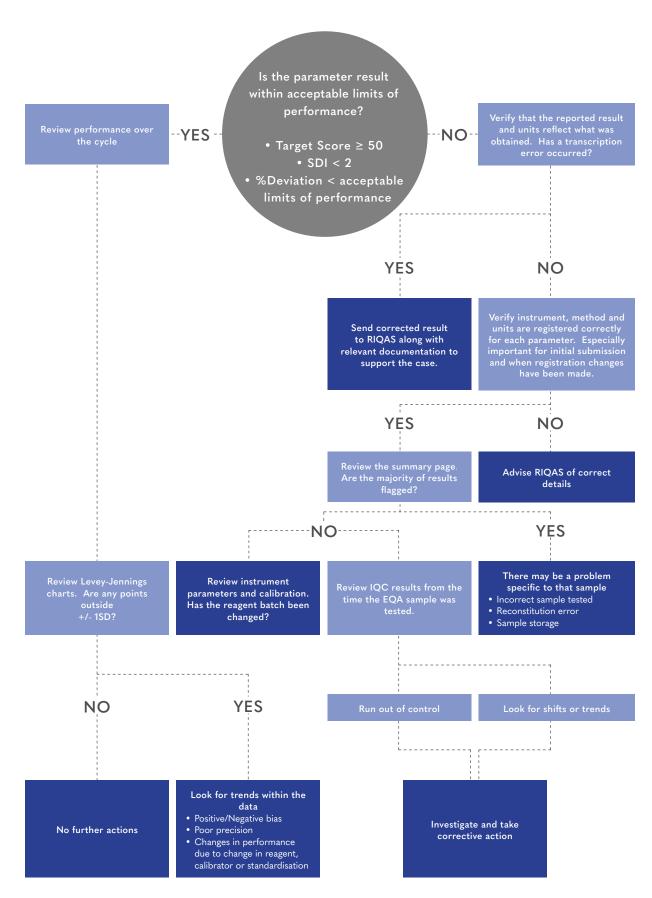
MONITORING EQA PERFORMANCE

A checklist similar to the one below is extremely useful when investigating poor EQA performance and may help you to determine the root cause of the problem and initiate corrective actions.

Laboratory:			
Cycle Number:		Sample Number:	
Analysis Date:		Analyte:	
Mean for Comparison:	•••••	Lab Result: SDI: %Dev;	•••••••••••••••••••••••••••••••••••••••
1. Specimen Handling			
a. Samples received in good condition	Y N	e. Error due to imprecision; check IQC in terms of	
b. Samples stored/prepared appropriately	Y N	%Deviation compared to deviation observed in EQA	Y N
c. Integrity of the sample is acceptable	W N	f. IQC target correctly assigned	V N
2. Clerical		5. Calibration	
a. Correct result entered	Y N	a. Date of last calibration	
b. Correct use of decimal point and units	Y N	b. Calibration frequency acceptable	Y N
c. Calculations, if any, performed correctly		c. Last calibration acceptable	Y N
(even if automated)	M M		
d. Conversion factors applied to results before submission	W N	6. Instrument	
		a. Daily maintenance performed on date of sample analysis	W W
3. Registration and Mean for Comparison	•	b. Special maintenance performed prior to sample analysis	W W
a. Registered in the correct method/instrument group	W W	c. Instrument operated correctly	M M
· · · · · · · · · · · · · · · · · · ·	W N	d. Operator fully trained	W W
c. Peer Group changed due to the number of participants	•	7 December	
returning results e.g. from method to instrument d. An obvious bias between method and instrument means	W W	7. Reagents	•
(check histogram and stats sections)	M N	a. Reagents prepared and stored correctly b. Reagents within open vial stability	
(check histogram and stats sections)		b. Neagents within open via stability	
4. Internal Quality Control		8. EQA sample	
a. %Deviation of IQC (at similar conc to that of EQA) on		a. Initial value	
sample analysis date acceptable	V N	b. Re-run value	
b. Shift in IQC in the periods just before and after EQA		c. Issue observed in previous EQA samples at a similar	
sample analysis	M M	concentration (check %Deviation by concentration and	
c. Trends in IQC in the periods before and after EQA		Levey Jennings charts)	W W
sample analysis	W N	d. All parameters affected (to the same extent) - possible	
d. Random IQC variation on sample analysis date	W W	reconstitution error (check %Deviation on summary pages)	W W
Canalysians		Damadial Antique	
Conclusion:		Remedial Action:	
			•••••
Lab Manager: Date: Date:		Lab Director: Date:	

MONITORING EQA PERFORMANCE

The flow chart below can be used to help identify a possible root cause for poor EQA performance.



pO,

Ammonia/Ethanol Programme With target scoring



RQ9164 (2 ml)

2 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription

Ethanol

Anti-Müllerian Hormone (AMH) Programme+ 👢



1 Parameter Samples every month, 1 x 12 month cycle, 12 month subscription

Anti-Müllerian Hormone (AMH)

Anti-TSH Receptor Programme+ With target scoring



RQ9174 (1 ml)

1 Parameter

Samples every month, 1 x 12 month cycle, 12 month subscription

Anti-TSH Receptor (TRAb)

Blood Gas Programme With target scoring



RQ9134/A (1.8 ml) RQ9134 (1.8 ml) First registered instrument Subsequent instruments 11 Parameters 11 Parameters Samples every month, 1 x 12 month cycle, 12 month subscription

Bicarbonate CO₂(Total) Са++ Glucose Na+ CI-Lactate рСО,

BNP Programme+ With target scoring



RQ9165 (1 ml)

1 Parameter Samples every month, 1 x 12 month cycle, 12 month subscription

Cardiac Programme With target scoring



RQ9127/a (1 ml) RQ9127/b (1 ml) 2 Parameters only (choose from 7) **Full 7 Parameters** Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription

RQ9186 (1 ml) Full 7 Parameters Samples every month, 1 x 12 monthly cycle, 12 month subscription

CK-MB (Mass) CK. Total Myoglobin Troponin T CK-MB (Activity) Homocysteine Troponin I

Cardiac Plus Programme With target scoring



RQ9190 (3 ml) 11 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription

CK, Total D-dimer hsCRP Troponin I CK-MB Activity Myoglobin Troponin T Digoxin CK-MB Mass NT proBNP Homocysteine

Cerebrospinal Fluid Programme+ With target scoring



RQ9168 (3 ml)

Samples every month, 1 x 12 month cycle, 12 month subscription

Albumin Glucose Lactate Sodium Chloride ΙgG Protein (Total)





Coagulation Programme With target scoring



RQ9135/a (1 ml) RO9135/b (1 ml) 5 Selected parameters only + 1 pilot Full 16 Parameters + 1 p (aPTT, PT, TT, Fibrinogen, Antithrombin III) Samples every month, 1 x 12 month cycle, 12 month subscription Full 16 Parameters + 1 pilot

D-dimer PT (including INR) Factor II Factor V Fibrinogen Factor VII Antithrombin III Factor VIII Factor IX Factor X Factor XI Factor XII Plasminogen

Protein C Protein S

CO-Oximetry Programme+



7 Parameters Samples every month, 1 x 12 month cycle, 12 month subscription Carboxyhaemoglobin (COHb / HbCO)

Methaemoglobin (MetHb) Oxygen Saturation (sO2 / Vol O2) Oxygen Content (O2CT) Oxyhaemoglobin (O2Hb / HbO2)

Total Haemoglobin (tHb)

CYFRA 21-1 Programme+

RQ9175 (1 ml) 1 Parameter

RQ9177 (1.2 ml)

Samples every month, 1 x 12 month cycle, 12 month subscription

CYFRA 21-1 (Cytokeratin 19)

Deoxyhaemoglobin (HHb)

Cytokines Programme+



RQ9195 (1 ml) 1 Parameter + 11 pilots

Samples every month, 1 x 12 month cycle, 12 month subscription

Epidermal Growth Factor (EGF)* Interleukin - 1 alpha (IL-1a)* Interleukin – 1 beta (IL-1β)* Interleukin - 2 (IL-2)*

Interleukin - 4 (IL-4)* Interleukin – 6 (IL-6) Interleukin - 8 (IL-8)* Interleukin - 10 (IL-10)* Interferon gamma (INF-Y)* Monocyte Chemoattractant Protein -1 (MCP-1)* Tumour Necrosis Factor alpha (TNF-α)* Vascular Endothelial Growth Factor (VEGF)*

ESR Programme+



1 Parameter

2 samples per quarterly distribution, 1 x 12 month cycle, 12 month subcription

ESR (Erythrocyte Sedimentation Rate)

General Clinical Chemistry Programme With target scoring



RQ9112/a (5 ml) RQ9112/b (5 ml) RQ9112/c (5 ml) RQ9128 (5ml) 10 Parameters Full 56 Parameters 17 Parameters **Full 56 Parameters** Samples every month, 1 x 12 monthly cycle, 12 month subscription Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription, reference method values

ACE (Angiotensin Converting Enzyme) Acid Phosphatase (Prostatic) Acid Phosphatase (Total) Albumin Alkaline Phosphatase ALT (ALAT) Amylase (Pancreatic) Amylase (Total)

AST (ASAT) Bicarbonate Bile Acids Bilirubin (Direct) Bilirubin (Total)

Calcium, Adjusted Calcium (Ionised) Chloride Cholesterol Cholinesterase CK, Total (CPK) Copper Creatinine D-3-Hydroxybutyrate

eGFR (estimated glomerular filtration rate) Fructosamine νGT GLDH Glucose

HBDH HDL-Cholesterol Iron Lactate LD (LDH) LDL-Cholesterol Lipase Lithium Magnesium Non-HDL Cholesterol Osmolality

NFFA Phosphate (Inorganic)

Protein (Total) PSA Sodium TIBC T₃ (Free)
T₃ (Total)
T₄ (Free)
T₄ (Total)
Triglycerides TSH UIBC Urea Uric Acid Zinc

Glycated Haemoglobin Programme (HbA1c) With target scoring



RQ9129 (0.5ml)

Samples every month, 1 x 12 month cycle, 12 month subscription

HbA1c Total Haemoglobin





Protein (Total)

Sodium

Uric Acid

Urea

VMA

5-HIAA

Haematology Programme With target scoring



RQ9118 (2 ml) RO9140 (2ml) 11 Parameters 11 Parameters Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription Samples every month, 1 x 12 monthly cycle, 12 month subscription

Mean Cell Haemoglobin Concentration Haematocrit (HCT) Haemoglobin (Hb) (MCHC)

Mean Cell Volume (MCV) Mean Cell Haemoglobin (MCH)

Mean Platelet Volume (MPV) Platelets (PLT) Plateletcrit (PCT)

Red Blood Cell Count (RBC) Red Cell Distribution Width (RDW) Total White Blood Cell Count (WBC)

Human Urine Programme With target scoring



RQ9115 (2 x 10 ml) RQ9185 (10ml) 25 Parameters 25 Parameters Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription Samples every month, 1 x 12 monthly cycle, 12 month subscription

Creatinine Normetanephrine Albumin/Microalbumin Dopamine Magnesium Amylase Epinephrine Osmolality Calcium Glucose Oxalate Chloride Metanephrine Phosphate (Inorganic) Copper Norepinephrine Potassium Cortisol

Immunoassay Programme With target scoring



RQ9125/b (5 ml) RQ9125/c (5 ml) RQ9125/a (5 ml) RQ9130 (5 ml) 4 Parameters only + 2 pilots Full 49 Parameters + 2 pilots Full 49 Parameters + 2 pilots 13 Parameters only + 2 pilots Samples every month, 1 x 12 month cycle, 12 month subscription RQ9130) Samples every two weeks, 2 x 6 monthly cycles, 12 month subscription (RQ9125/a, RQ9125/b, RQ9125/c)

T₄ (Free) ACTH DHEA-Sulphate 17-OH-Progesterone DHEA Unconjugated Paracetamol T₄ (Total) Aldosterone Phenobarbital Testosterone (Free)* Digoxin Ferritin Amikacin Phenytoin Testosterone (Total) Androstenedione Folate Progesterone Theophylline β -2-Microglobulin FSH Prolactin Thyroglobulin CA125 PSA (Free) TSH Gentamicin CA15-3 Valproic Acid GH PSA (Total) CA19-9 hCG PTH Vancomycin Carbamazepine Salicylate lgE CEA Insulin SHBG 1-25-(OH)2-Vitamin D* T₃ (Free) T₃ (Total) 25-OH-Vitamin D Cortisol IН C-Peptide Oestradiol

Immunoassay Speciality 1 Programme With target scoring



RQ9141 (2 ml) Samples every month, 1 x 12 month cycle, 12 month subscription

1-25-(OH)_a-Vitamin D* Anti-TG Insulin Osteocalcin Anti-TPO 25-OH-Vitamin D Procalcitonin

Immunoassay Speciality 2 Programme With target scoring



RQ9142 (1 ml) Samples every month, 1 x 12 month cycle, 12 month subscription

Calcitonin Procalcitonin Plasma Renin Activity Renin (Direct Concentration) Gastrin



4 Parameters Samples every month, 1 x 12 month cycle, 12 month subscription, reference method values

Everolimus Sirolimus Tacrolimus

Lipid Programme With target scoring



RQ9126/a (3 ml) RQ9126/b (3 ml) 3 Parameters only (choose from 7) Full 7 Parameters Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription

LDL-Cholesterol Cholesterol (Total) Apolipoprotein A1 Triglycerides Apolipoprotein B HDL-Cholesterol Lipoprotein (a)



RO9159 (2 ml)



Maternal Screening Programme With target scoring



RQ9137 (1 ml) 6 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription

Total hCG

free β -hCG Inhibin A PAPP-A Unconjugated Oestriol

Microbiology (Bacterial Identification) Programme+

Strain Identification

RQ9197 1 strain (complete with case study)

Antimicrobial Susceptibility Testing

Samples every 2 months, 1 x 12 month cycles, 12 month subscription

1 strain complete with case study. Identification of the micro-organisms can be made at Gram positive / negative, Genus and Species level. Antimicrobial Susceptibility Testing on identified strain

Neonatal Bilirubin Programme+



2 Parameters

Samples every month, 1 x 12 month cycle, 12 month subscription

Direct Bilirubin Total Bilirubin

Serology (EBV) Programme+ 🚺



RQ9153 (1 ml)

Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-EBV VCA IgG Anti-EBNA IgG Anti-EBV VCA IgM

Serology (HIV-Hepatitis) Programme+



10 Parameters + 6 pilots

Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-CMV (Total) Anti-HBc IgM* Anti-HAV IgM* Anti-HBe (Total)* Anti-HAV (Total)*

Anti-HBs (Total)* Anti-HCV Anti-HBc

Anti-HIV-1 Anti-HIV-2 Anti-HIV combined Anti-HTIV I

Anti-HTLV II Anti-HTLV combined

HBsAg P24*

Serology (Syphilis) Programme+



1 Parameter

Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Syphilis (Methods available include immunoassay RPR, VDRL and TPHA)

Serology (ToRCH) Programme+



RO9152 (1 ml)

12 Parameters + 3 pilots

Samples every month, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-CMV IgG Anti-CMV IgM Anti-HSV1 lgG Anti-HSV1 IgM

Anti-HSV2 IgG Anti-HSV2 IgM Anti-HSV1/2 lgG Anti-HSV1/2 IgM

Anti-Measles IgG' Anti-Mumps IgG* Anti-Rubella IgG Anti-Rubella IgM

Anti-Toxoplasma IgG Anti-Toxoplasma IgM Anti-VZV lgG*





Lambda Light Chain (Total)

Prealbumin (Transthyretin)

Retinol Binding Protein

Rheumatoid Factor

Transferrin

Serum Indices Programme+

RQ9194 (1 ml) 3 Indices Assessments RQ9194/A (1 ml) 25 Chemistry Parameters Samples Bi-Monthly, 2 x 9 samples, 12 month subscription

Indices Assessment (Quantitative and Semi-Quantitative)

Haemolysis Lipaemic

Parameter Assessment (Quantitative)

ALP Cholesterol Lactate Sodium CK NAC LDH ALT Triglycerides AST Creatinine Lipase Urea Bilirubin (Direct) GGT Magnesium Uric Acid Bilirubin (Total) Glucose Phosphate Calcium HDI Potassium Chloride Iron Protein (Total)

Specific Proteins Programme With target scoring

RQ9114 (3 ml) RQ9187 (1ml) 26 Parameters 26 Parameters

β-2-Microglobulin

Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription Samples every month, 1 x 12 monthly cycle, 12 month subscription

lgΑ

Albumin Ceruloplasmin IgE α -1-Acid glycoprotein Complement C lgG lpha-1-Antitrypsin Complement C lgΜ lpha-2-Macroglobulin C-Reactive Protein Kappa Light Chain (Free) Anti Streptolysin O Ferritin Kappa Light Chain (Total) Antithrombin III Haptoglobin Lambda Light Chain (Free)

Sweat Testing Programme+

RO9173 (2 ml) 2 Parameters Samples every month, 1 x 12 month cycle, 12 month subscription

Conductivity

Therapeutic Drugs Programme With target scoring

18 Parameters Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription, Weighed-in values

Amikacin Ethosuximide Phenobarbital Tobramycin Caffeine Gentamicin Phenytoin Valproic Acid Carbamazepine Lithium Primidone Vancomycin Methotrexate Salicylic Acid Ciclosporin Paracetamol (Acetaminophen) Theophylline

Urinalysis Programme With scoring

RQ9138 (12 ml)

14 Parameters Samples every 2 months, 1 x 12 month cycle, 12 month subscription

Specific Gravity Albumin Galactose Leucocytes Bilirubin Glucose Nitrite Urobilinogen hCG Blood На

Urine Toxicology Programme+

RQ9139 (5 ml)

Samples every month, 1 x 12 month cycle, 12 month subscription

MDMA d-Methamphetamine Benzoylecgonine EDDP Methadone Buprenorphine Cannabinoids (THC) Ethanol Nortriptyline Cotinine Free Morphine Norpropoxyphene Creatinine Lorazepam Oxazepam d-Amphetamine LSD Phencyclidine

Ketones

Whilst every attempt is made to ensure that information is accurate and up-to-date, some information is subject to change, please contact RIQAS for current details.







Protein

+ = Not accredited

Phenobarbital

Secobarbital

* = Pilot study ongoing

	ccredited udy ongoing The only parameters available on RQ9135/a	Ammonia / Ethanol	Anti-Mullerian Hormone (AMH) +	Anti-TSH Receptor +	Blood Gas	BNP +	Cardiac	Cardiac Plus	Cerebrospinal Fluid +	Coagulation	CO-Oximetry +	CYFRA 21-1 +	Cytokines +	ESR +	General Clinical Chemistry	HbA1c	Haematology	Human Urine	lmmunoassay
#	1-25-(OH) ₂ -Vitamin D* 17-OH-Progesterone 25-OH-Vitamin D																		X X X
A	5-HIAA α-1-Acid Glycoprotein α-1-Antitryspin α-2-Macroglobulin ACE (Angiotensin Converting Enzyme) Acid Phosphatase (Prostatic) Acid Phosphatase (Total) ACR ACTH AFP Albumin Aldosterone Alkaline Phosphatase ALT ALT (ALAT) Amikacin Ammonia Amylase (Pancreatic) Amylase (Total) Androstenedione Anti Streptolysin O (ASO) Anti-CMV IgG Anti-EBNA IgG Anti-EBV VCA IgM Anti-HAV (Total)* Anti-HBc IgM* Anti-HBc (Total)* Anti-HBc (Total)* Anti-HV-1 Anti-HIV-1 Anti-HIV-1 Anti-HIV-1 Anti-HIV-1 Anti-HIV-1 Anti-HIV-1 Anti-HSV-1 & 2 IgM Combined Anti-HSV1 IgG Anti-HSV1 IgG Anti-HSV1 IgM Anti-HSV1 IgG	X							X						X X X X			x x	x x x
	Anti-HSV2 IgG Anti-HSV2 IgM Anti-HTLV-1 & 2 Combined Anti-HTLV-I Anti-HTLV-II Anti-Measles IgG* Antimicrobial Susceptibility Testing																		

Χ	Immunoassay Speciality 1
	Immunoassay Speciality 2
	Immunosuppressant +
	Lipid
	Maternal Screening
	Microbiology (Bacterial Idenitfication) +
	Neonatal Bilirubin +
	Serology (EBV) +
	Serology (HIV / Hepatitis) +
	Serology (Syphilis) +
	Serology (ToRCH) +
	Serum Indices +
	Specific Proteins
	Sweat Testing +
	Therapeutic Drug
	Urinalysis
	Urine Toxicology +
1.	

- + = Not accredited
- * = Pilot study ongoing

Immur	Immur	Immur	Lipid	Mater	Microk	Neona	Serolo	Serolo	Serolo	Serolo	Serum	Specif	Sweat	Thera	Urinal	Urine		
Х																	1-25-(OH) ₂ -Vitamin D*	#
																	17-OH-Progesterone	
Х																	25-OH-Vitamin D	
																	5-HIAA	
												Χ					α-1-Acid Glycoprotein	Α
												Х					α-1-Antitryspin	^
												Х					α-2-Macroglobulin	
																	ACE (Angiotensin Converting Enzyme)	
																	Acid Phosphatase (Prostatic)	
																	Acid Phosphatase (Total)	
																	ACT	
																	ACTH	
				Χ								X					AFP	
												Χ			Χ		Albumin	
																	Aldosterone	
											Χ						Alkaline Phosphatase	
											Х						ALT	
																	ALT (ALAT)	
														Χ			Amikacin	
																	Ammonia	
																	Amylase (Pancreatic)	
																	Amylase (Total)	
																	Androstenedione	
												Х					Anti Streptolysin O (ASO)	
								Χ									Anti-CMV	
										Χ							Anti-CMV IgG	
										Х							Anti-CMV IgM	
							Χ			7.							Anti-EBNA IgG	
							X										Anti-EBV VCA IgG	
							X										Anti-EBV VCA IgM	
							^	Х									Anti-HAV IgM*	
								X									Anti-HAV (Total)*	
								X									Anti-HBc	
								X									Anti-HBc IgM*	
								Х									Anti-HBe (Total)*	
								Х									Anti-HBs (Total)*	
								Х									Anti-HCV	
								Х									Anti-HIV-1	
								Х									Anti-HIV-1 & 2 Combined	
								Χ									Anti-HIV-2	
										Χ							Anti-HSV-1 & 2 IgG Combined	
										Χ							Anti-HSV-1 & 2 IgM Combined	
										Χ							Anti-HSV1 IgG	
										Χ							Anti-HSV1 IgM	
										Χ							Anti-HSV2 IgG	
										Χ							Anti-HSV2 IgM	
								Χ									Anti-HTLV-1 & 2 Combined	
								X									Anti-HTLV-I	
								X									Anti-HTLV-II	
								,		Х							Anti-Measles IgG*	
					Х					^							Antimicrobial Susceptibility Testing	
					٨												Antimicrobial Susceptibility Testing	

 $^{^{\}Delta}$ Pilot status only in certain programmes. Please check pages 42-46 for more information.

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PUR

= Not ac			e (AMH) +												istry				
Pilot stu	dy ongoing	_	uow.	+					+						hem				
RPLE = T	The only parameters available on RQ9135/a	Ammonia / Ethanol	Anti-Mullerian Hormone (AMH) +	Anti-TSH Receptor +	Blood Gas	BNP +	Cardiac	Cardiac Plus	Cerebrospinal Fluid	Coagulation	CO-Oximetry +	CYFRA 21-1 +	Cytokines +	ESR +	General Clinical Chemistry	HbA1c	Haematology	Human Urine	lmmunoassay
	A - (* NA**II - * II / ANALI)	∢		Ā	區	<u>m</u>	ပ	ပ	O	O	ပ	Ö	Ö	Щ	G	I	Ï	Ī	=
Α	Anti-Müllerian Hormone (AMH) Anti-Mumps IgG*		Х																
	Anti-Rubella IgG																		
	Anti-Rubella IgM																		
	Anti-TG																		
	Antithrombin III									Х									
	Anti-Toxoplasma IgG																		
	Anti-Toxoplasma IgM																		
	Anti-TPO																		
	Anti-TSH Receptor (TRAb)			Χ															
	Anti-VZV IgG*																		
	Apolipoprotein Al																		
	Apolipoprotein B																		
:	aPTT									Χ									
	AST																		
	AST (ASAT)														Χ				
В	β-2-Microglobulin																		Х
	Benzoylecgonine																		
	Bicarbonate				Х										Х				
	Bile Acids														Χ				
	Bilirubin (Direct)														Х				
	Bilirubin (Total)														Х				
	Blood																		
	BNP					Х													
	Buprenorphine																		
С	CA15-3																		Χ
	CA19-9																		Χ
	CA125																		Χ
	Caffeine																		
	Calcitonin																		
	Calcium														Χ			Χ	
	Calcium, Adjusted														Χ				
	Calcium (Ionised)				Χ										Χ				
	Cannabinoids (THC)																		
	Carbamazepine																		Χ
	Carboxyhaemoglobin (COHb / HbCO)										Χ								
	CEA																		Χ
	Ceruloplasmin																		
	Chloride				Χ				Χ						Χ			Χ	
	Cholesterol (Total)														Χ				
	Cholinesterase														Χ				
	Ciclosporin																		
	CK, Total						Х	Χ							Χ				
	CK-MB (Activity)						Х	Х											
	CK-MB (Mass)						Χ	Χ											
	CK NAC																		
	CO2, Total				Χ														
	Complement C ₃																		
С	Complement C ₄																		
	Conductivity																		
	Copper														Χ			Χ	

	Immunoassay Speciality 1
	Immunoassay Speciality 2
	Immunosuppressant +
	Lipid
	Maternal Screening
	Microbiology (Bacterial Idenitfication) +
	Neonatal Bilirubin +
	Serology (EBV) +
	Serology (HIV / Hepatitis) +
	Serology (Syphilis) +
	Serology (ToRCH) +
	Serum Indices +
	Specific Proteins
	Sweat Testing +
	Therapeutic Drug
	Urinalysis
	Urine Toxicology +
Α	

- + = Not accredited
- * = Pilot study ongoing

Anti-Mullerian Hormone (AMH) X X Anti-Munpa IgG* Anti-Rubella IgM Anti-Tabella IgM Anti-Ta	lmmu	lmmu	lmmu	Lipid	Mater	Micro	Neon	Serok	Serok	Serok	Serok	Serun	Speci	Sweat	Thera	Urina	Urine		
																		Anti-Müllerian Hormone (AMH)	Α
											Х								
X																			
X	Х																		
													Х						
X											Х								
X																			
Anti-YZV Igg* Anti-YZV Igg* Apolipoprotein A Apolipoprotein B X Apolipoprotein B PIT AST (ASAT) X Benzoylecgonine Bicarbonate Bicarbonate Bile Acids Bille Acids Calcium (Direct) X X X X X X X X X X X X X X X X X X X	X																		
X											Y								
				~							^								
No.																			
X				^															
AST (ASAT) B-2-Microglobulin B B B B B B B B B												V							
												٨							
X Benzoylecgonine Bilicarbonate Bilicarbonat																			
													Х						В
																	Х		
X																			
X																			
X Blood BNP							Х											Bilirubin (Direct)	
BNP							Χ					Χ				Χ		Bilirubin (Total)	
																Χ		Blood	
CA15-3																		BNP	
CA19-9																	Χ	Buprenorphine	
CA19-9																		CA15-3	С
CA125																		CA19-9	
X Calcitonin Calcitonin X Calcium Calcium, Adjusted Calcium (lonised) X Cannabinoids (THC) X Carbamazepine Carboxyhaemoglobin (COHb / HbCO) CEA X Ceruloplasmin X X Chloride X Cholesterol (Total) Cholinesterase X Ciclosporin CK, Total CK-MB (Activity) CK-MB (Mass) X Complement Calcium, Adjusted Calcium, Calcium, Adjusted Calcium, Calcium Collium Collium Collium COH COC, Total Complement Calcium Collium Collium Collium Collium Complement Calcium Calcium Calcium Collium Complement Calcium Collium Collium Collium Collium Calcium Collium Collium Collium Calcium Collium Collium Calcium Collium Collium Calcium Calcium Collium Collium Calcium Calcium Collium Collium Calcium Calcium Collium Collium Calcium Collium Collium Calcium Calcium Collium Collium Calcium Collium Collium Calcium Calcium Collium Collium Col																		CA125	
X															Х				
X		Х																	
Calcium, Adjusted Calcium (Ionised) X Cannabinoids (THC) X Carbamazepine Carboxyhaemoglobin (COHb / HbCO) CEA X Ceruloplasmin X X Chloride X Cholesterol (Total) Cholinesterase X X Ciclosporin CK, Total CK, Total CK, Total CK, MB (Activity) CK, MB (Mass) X X Complement C ₃ X Complement C ₄ C Conductivity												Х							
Calcium (Ionised) X Cannabinoids (THC) X Carbamazepine																			
X Cannabinoids (THC) X Carbamazepine Carboxyhaemoglobin (COHb / HbCO) CEA X Ceruloplasmin X X Chloride X X Chloride X X Cholesterol (Total) Cholinesterase X X Ciclosporin CK, Total CK-MB (Activity) CK-MB (Mass) X CK NAC CO2, Total X Complement C3 X Complement C4 X Complement C4 X Complement C4 X Complement C4 X Conductivity																			
X																	X		
Carboxyhaemoglobin (COHb / HbCO) CEA X Ceruloplasmin Chloride Cholesterol (Total) Cholinesterase Cholinesterase X X CK, Total CK, Total CK-MB (Activity) CK-MB (Mass) CK NAC CO2, Total X Complement C3 X Complement C4 C Conductivity															X				
CEA															, ,				
X																			
X X X Chloride X X Cholesterol (Total) Cholinesterase X X Ciclosporin CK, Total CK, Total CK-MB (Activity) CK-MB (Mass) CK-MB (Mass) CK NAC CO2, Total CO2, Total CO2, Total CO2, Total X Complement C3 COMPLEMENT C4 COMPLEMENT C4 X Conductivity C													Y						
X												V	^	Y					
X Cholinesterase X Ciclosporin CK, Total CK-MB (Activity) CK-MB (Mass) CK-MB (Mass) X CK NAC CO2, Total COmplement C3 X Complement C4 Complement C4 C Conductivity				V										٨					
X X Ciclosporin CK, Total CK-MB (Activity) CK-MB (Mass) CK-MB (Mass) X CK NAC CO2, Total COmplement C3 X Complement C4 C X Conductivity C				Χ								٨							
CK, Total CK-MB (Activity) CK-MB (Mass) CK NAC CO2, Total X Complement C3 X Complement C4 C Conductivity																			
CK-MB (Activity) CK-MB (Mass) CK-MB (Mass) CK NAC CO2, Total X Complement C3 X Complement C4 C X Conductivity			Χ												X				
CK-MB (Mass) X CK NAC CO2, Total X Complement C3 X Complement C4 C X Conductivity																			
X CK NAC CO2, Total Complement C3 X Complement C4 C X Conductivity C																			
CO2, Total X Complement C3 X Complement C4 C X Conductivity																			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$												X							
X Complement C ₄ C X Conductivity																			
X Conductivity																			
													Χ						С
Copper														Χ					
																		Copper	

 $^{^{\}Delta}$ Pilot status only in certain programmes. Please check pages 42-46 for more information.

	ccredited		ne (AMH) +												nistry				
	udy ongoing The only parameters available on RQ9135/a	Ammonia / Ethanol	Anti-Mullerian Hormone (AMH) +	Anti-TSH Receptor +	Blood Gas	+	iac	Cardiac Plus	Cerebrospinal Fluid +	Coagulation	CO-Oximetry +	CYFRA 21-1 +	Cytokines +	+	General Clinical Chemistry	اد	Haematology	Human Urine	Immunoassay
		Amm	Anti-	Anti-	Blood	BNP +	Cardiac	Card	Cere	Coag	00	CYFF	Cyto	ESR +	Gene	HbA1c	Наеп		
С	Cortisol																	Χ	Χ
	Cotinine																		
	C-Peptide																		Χ
	C-Reactive Protein (CRP)																		
	Creatinine														Χ			Χ	
	CYFRA 21-1 (Cytokeratin 19)											Χ							
D	D-3-Hydroxybutyrate														Χ				
	d-Amphetamine																		
	D-Dimer* ^Δ							Χ		Χ									
	Deoxyhaemoglobin (HHb)										Χ								
	DHEA Unconjugated																		Χ
	DHEA-Sulphate																		Χ
	Digoxin							Χ											Х
	d-Methamphetamine																		
	Dopamine																	Χ	
E	EDDP														.,				
	eGFR (estimated glomerular filtration rate)														Х				
	Epidermal Growth Factor (EGF)*												Χ						
	Epinephrine																	Χ	
	ESR Ethanol	Х												X					
	Ethosuximide	^																	
	Everolimus																		
F	Factor II									Х									
Г	Factor IX									X									
	Factor V									X									
	Factor VII									X									
	Factor VIII									X									
	Factor X									Х									
	Factor XI									Х									
	Factor XII									Х									
	Ferritin																		Х
	Fibrinogen									Х									
	Folate																		Х
	Free Morphine																		
	free β-hCG																		
	Fructosamine														Х				
	FSH																		Χ
G	γ-GT														Х				
	Galactose																		
	Gastrin																		
	Gentamicin																		Χ
	Growth Hormone (GH)																		Χ
	GLDH														Χ				
	Glucose				Χ				Χ						Χ			Χ	
Н	Haematocrit (HCT)																Χ		
	Haemoglobin (Hb)																Χ		
	Total Haemoglobin (tHb)										Χ					Χ			
	Haemolysis																		
	Haptoglobin																		
	HbA1c															Χ			

 $^{^{\}vartriangle}$ Pilot status only in certain programmes. Please check pages 42-46 for more information.

Immunoassay Speciality 1
Immunoassay Speciality 2
Immunosuppressant +
Lipid
Maternal Screening
Microbiology (Bacterial Idenitfication) +
Neonatal Bilirubin +
Serology (EBV) +
Serology (HIV / Hepatitis) +
Serology (Syphilis) +
Serology (ToRCH) +
Serum Indices +
Specific Proteins
Sweat Testing +
Therapeutic Drug
Urinalysis
Urine Toxicology +

- + = Not accredited
- * = Pilot study ongoing

lmmu	lmmu	lmmu	Lipid	Mater	Micro	Neon	Serok	Serok	Serok	Serok	Serun	Speci	Sweat	Thera	Urina	Urine		
																	Cortisol	С
																Х	Cotinine	
Х																	C-Peptide	
												Х					C-Reactive Protein (CRP)	i
											Χ				Х	Х	Creatinine	
																	CYFRA 21-1 (Cytokeratin 19)	
																	D-3-Hydroxybutyrate	D
																	d-Amphetamine	
																	D-Dimer* ^Δ	
																	Deoxyhaemoglobin (HHb)	
																	DHEA Unconjugated	
																	DHEA-Sulphate	i
														Χ			Digoxin	
														,,			d-Methamphetamine	
																	Dopamine	
																	EDDP	Е
																,,	eGFR (estimated glomerular filtration rate)	-
																	Epidermal Growth Factor (EGF)*	
																	Epinephrine	
																	ESR	ł
																Χ	Ethanol	
														Х		Α	Ethosuximide	
		Χ															Everolimus	
		,															Factor II	F
																	Factor IX	'
																	Factor V	
																	Factor VII	
																	Factor VIII	ł
																	Factor X	
																	Factor XI	
																	Factor XII	
												Χ					Ferritin	1
																	Fibrinogen	
																	Folate	
																	Free Morphine	
				Χ												, (free β-hCG	
																	Fructosamine	
																	FSH	
											Х						γ-GT	G
											,,				Х		Galactose	G
	Χ																Gastrin	
														Х			Gentamicin	
														,			Growth Hormone (GH)	
																	GLDH	
											Х				Х		Glucose	
											,,				,,		Haematocrit (HCT)	Н
																	Haemoglobin (Hb)	''
																	Total Haemoglobin (tHb)	
											Х						Haemolysis	
												Х					Haptoglobin	
												, ,					HbA1c	
																	TIDAIC-	

 $^{^{\}Delta}$ Pilot status only in certain programmes. Please check pages 42-46 for more information.

	credited udy ongoing The only parameters available on RQ9135/a	Ammonia / Ethanol	Anti-Mullerian Hormone (AMH) +	Anti-TSH Receptor +	Blood Gas	BNP +	Cardiac	Cardiac Plus	Cerebrospinal Fluid +	Coagulation	CO-Oximetry +	CYFRA 21-1 +	Cytokines +	ESR +	General Clinical Chemistry	HbA1c	Haematology	Human Urine	Immunoassay
Н	HBsAg																		
•	HBDH														Х				
	hCG																		Х
	HDL-Cholesterol														Х				
	Homocysteine						Х	Х											
	hsCRP							Х											
1	Icteric																		
•	IgA																		
	lgE																		Х
	IGF-1																		
	IgG								Χ										
	IgM																		
	Inhibin A																		
	Insulin																		Χ
	Interferon gamma (INF-Y)*												Х						^
	Interieron gamma (INF-1)" Interleukin – 1 alpha (IL-1 α)*												X						
													X						
	Interleukin – 1 beta (IL-1β)*																		
	Interleukin – 10 (IL-10)*												X						
	Interleukin – 2 (IL-2)*												X						
	Interleukin – 4 (IL-4)*												X						
	Interleukin – 6 (IL-6)												Х						
	Interleukin – 8 (IL-8)*												Χ						
	Iron														Χ				
K	Kappa Light Chain (Free)																		
	Kappa Light Chain (Total)																		
	Ketones																		
L	Lactate				Χ				Х						Χ				
	Lambda Light Chain (Free)																		
	Lambda Light Chain (Total)																		
	LD (LDH)														Χ				
	LDL-Cholesterol														Χ				
	Leucocytes																		
	Lipase														Χ				
	Lipoprotein (a)																		
	Lithium														Χ				
	Lorazepam																		
	LSD																		
	Luteinising Hormone (LH)																		Χ
M	Magnesium														Χ			Χ	
	MDMA																		
	Mean Cell Haemoglobin (MCH)																Χ		
	Mean Cell Haemoglobin Concentration																Х		
	(MCHC)																		
	Mean Cell Volume (MCV)																X		
	Mean Platelet Volume (MPV)																Х	V	
	Metanephrine																	Χ	
	Methadone										24								
	Methaemoglobin (MetHb)										Χ								
	Methotrexate																		
	Monocyte Chemoattractant Protein -1 (MCP-1)*												Χ						
	Myoglobin						Х	χ											
	, 56.00						7.	7.											

	Immunoassay Speciality 1
	Immunoassay Speciality 2
	Immunosuppressant +
	Lipid
	Maternal Screening
	Microbiology (Bacterial Idenitfication) +
	Neonatal Bilirubin +
	Serology (EBV) +
Χ	Serology (HIV / Hepatitis) +
	Serology (Syphilis) +
	Serology (ToRCH) +
	Serum Indices +
	Specific Proteins
	Sweat Testing +
	Therapeutic Drug
	Urinalysis
	Urine Toxicology +
Е	

- + = Not accredited
- * = Pilot study ongoing

Immun Immun Immun Microbi Serolog Serolog Serolog Serolog Serolog Serolog Urinaly	
X HBsA	isAg H
HBD	
X hcG	
	DL-Cholesterol
	mocysteine
hsCF	
X Icter	
X IgA	
X IgE	
X IGF-	
X IgG	
X IgM	
	nibin A
X Insul	
	erferon gamma (INF-Y)*
	erleukin – 1 alpha (IL-1α)*
	erleukin – 1 beta (IL-1β)*
	erleukin – 10 (IL-10)*
	erleukin – 2 (IL-2)*
	erleukin – 4 (IL-4)*
	erleukin – 6 (IL-6)
	erleukin – 8 (IL-8)*
Iron	
	ppa Light Chain (Free) K
Х Карр	ppa Light Chain (Total)
X Keto	tones
Lact:	ctate
Laml	mbda Light Chain (Free)
Laml	mbda Light Chain (Total)
LD (I	(LDH)
LDL-	L-Cholesterol
X Leuc	ucocytes
Lipas	pase
Lipo	poprotein (a)
X Lithi	
	razepam
X LSD	
	teinising Hormone (LH)
	agnesium M
X MDN	
	ean Cell Haemoglobin (MCH)
	ean Cell Haemoglobin Concentration
	CHC)
	ean Cell Volume (MCV)
Mea	ean Platelet Volume (MPV)
Meta	etanephrine
	ethadone
	ethaemoglobin (MetHb)
	ethotrexate
Mon	onocyte Chemoattractant Protein -1
(MC	CP-1)*
Myo	voglobin voglobin

 $^{^{\}vartriangle}$ Pilot status only in certain programmes. Please check pages 42-46 for more information.

* =

PUR

Pilot stu	credited udy ongoing The only parameters available on RQ9135/a	Ammonia / Ethanol	Anti-Mullerian Hormone (AMH) +	Anti-TSH Receptor +	Blood Gas	BNP +	Cardiac	Cardiac Plus	Cerebrospinal Fluid +	Coagulation	CO-Oximetry +	CYFRA 21-1 +	Cytokines +	ESR +	General Clinical Chemistry	HbA1c	Haematology	Human Urine	Immunoassay
N	NEFA														Χ				
	Nitrite																		
	Non-HDL Cholesterol														Χ				
	Norepinephrine																	X	
	Normetanephrine																	Χ	
	Norpropoxyphene																		
	Nortriptyline NTproBNP							Х											
0	Oestradiol							^											Х
U	Osmolality														Х			Χ	
	Osteocalcin														,				
	Oxalate																	Χ	
	Oxazepam																		
	Oxygen Content (O2CT)										Χ								
	Oxygen Saturation (sO2 / Vol O2)										Χ								
	Oxyhaemoglobin (O2Hb / HbO2)										Χ								
Р	P24*																		
	PAPP-A																		
	Paracetamol (Acetaminophen)																		Χ
	pCO ₂				Χ														
	pH				Χ														
	Phencyclidine Phenobarbital																		Х
	Phenytoin																		X
	Phosphate (Inorganic)														Х			Х	
	Plasma Renin Activity																		
	Plasminogen									Χ									
	Plateletcrit (PCT)																Χ		
	Platelets (PLT)																Χ		
	pO_2				Χ														
	Potassium				Х										Χ			Χ	
	Prealbumin (Transthyretin)																		
	Primidone																		
	Procalcitonin																		
	Progesterone Prolactin																		X
	Protein (Total)								Х						Х			Х	^
	Protein C								^	Х					^			^	
	Protein S									Х									
	PSA (Free)																		Χ
	PSA (Total)														Χ				Χ
	PT (Including INR)									Χ									
	PTH																		Χ
R	Red Blood Bell Count (RBC)																Χ		
	Red Cell Distribution Width (RDW)																Χ		
	Renin (Direct Concentration)																		
	Retinol Binding Protein																		
	Rheumatoid Factor																		
S	Salicylic Acid																		Х
	Secobarbital SHBG																		Χ
	JIDG																		

	Immunoassay Speciality 1
	Immunoassay Speciality 2
	Immunosuppressant +
	Lipid
	Maternal Screening
	Microbiology (Bacterial Idenitfication) +
	Neonatal Bilirubin +
	Serology (EBV) +
	Serology (HIV / Hepatitis) +
	Serology (Syphilis) +
	Serology (ToRCH) +
	Serum Indices +
	Specific Proteins
	Sweat Testing +
	Therapeutic Drug
	Urinalysis
	Urine Toxicology +
N	

- + = Not accredited
- * = Pilot study ongoing

lmmu	lmmu	lmmu	Lipid	Mater	Micro	Neon	Serok	Serok	Serok	Serok	Serun	Speci	Sweat	Thera	Urina	Urine		
																	NEFA	N
															Х		Nitrite	
																	Non-HDL Cholesterol	
																	Norepinephrine	
																	Normetanephrine	
																Х	Norpropoxyphene	
																	Nortriptyline	
																	NTproBNP	
																	Oestradiol	0
																	Osmolality	
Х																	Osteocalcin	
																	Oxalate	
																V		
																^	Oxazepam	
																	Oxygen Content (O2CT)	
																	Oxygen Saturation (sO2 / Vol O2)	
																	Oxyhaemoglobin (O2Hb / HbO2)	
								Χ									P24*	Р
				Х													PAPP-A	
														Χ			Paracetamol (Acetaminophen)	
																	pCO ₂	
															Χ		рН	
																Χ	Phencyclidine	
														Χ		Χ	Phenobarbital	
														Χ			Phenytoin	
											Χ						Phosphate (Inorganic)	
	Χ																Plasma Renin Activity	
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																	Potassium	
												Χ					Prealbumin (Transthyretin)	
														Χ			Primidone	
Х	Χ																Procalcitonin	
	,,																Progesterone	
																	Prolactin	
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																	Red Blood Bell Count (RBC)	R
																	Red Cell Distribution Width (RDW)	
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												Χ					Retinol Binding Protein	
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														,,			Secobarbital	_ 3
																	SHBG	
																	<u> </u>	

 $^{^{\}Delta}$ Pilot status only in certain programmes. Please check pages 42-46 for more information.

Total White Blood Cell Count (WBC)

Zinc

Anti-Mullerian Hormone (AMH) + + = Not accredited General Clinical Chemistry * = Pilot study ongoing Anti-TSH Receptor + Cerebrospinal Fluid Ammonia / Ethanol PURPLE = The only parameters available on RQ9135/a CO-Oximetry Human Urine CYFRA 21-1 + Haematology Immunoassay Cardiac Plus Cytokines + Coagulation Blood Gas Cardiac BNP + Sirolimus Χ Χ Χ Χ Strain Identification Χ Χ Χ T₄ (Total) Χ Χ Χ Χ Theophylline Thyroglobulin **Triglycerides** Tumour Necrosis Factor alpha (TNF-a)* U Unconjugated Oestriol Urea Uric Acid Urobilinogen Valproic Acid Χ Χ Vascular Endothelial Growth Factor (VEGF)* Vitamin B12 Χ VMA

- + = Not accredited
- * = Pilot study ongoing

X Sirolimus Sodium X Specific Gravity Strain Identification Syphilis T _s (Free) T _s (Total) T ₄ (Free) T ₄ (Total) X Taerolimus Testosterone (Free)* Testosterone (Total) Theophylline Thyroglobulin TIBC X X Tobramycin Total hCG X X Transferrin Triglycerides Troponin I Troponin I Troponin T TSH TI Tumour Necrosis Factor alpha (TNF-α)* UIBC Unconjugated Oestriol UIRC Urea Urica Acid Valproic Acid	
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X Vancomycin	
Vascular Endothelial Growth Factor (VEGF)*	
Vitamin B12	
VMA	
Total White Blood Cell Count (WBC)	W
Zinc	Z

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