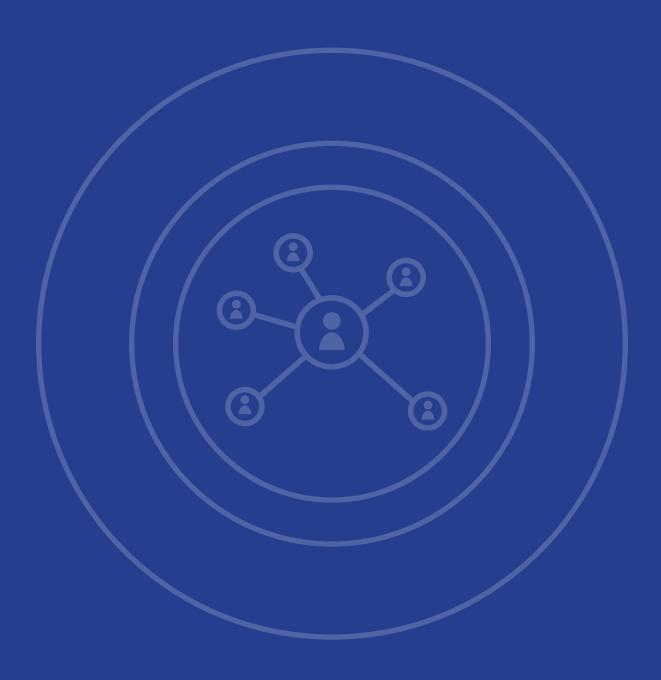
RIQAS

RANDOX INTERNATIONAL QUALITY ASSESSMENT SCHEME



RAND©X



RIQAS

The largest global EQA scheme with over 45,000 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, allow 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 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.



Highly Accredited

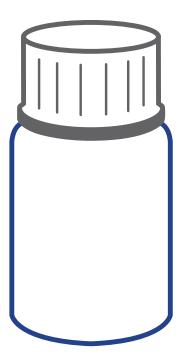
- Programmes accepted by National and International accreditation bodies worldwide.
- Participant certificates provide evidence of participation in a reputable EQA scheme.

RIQAS is the largest international EQA scheme in the world. It is used by more than 45,000 laboratory participants in 133 countries. 32 programmes are currently available.

RIQAS Programmes

- Ammonia/Ethanol
- Anti-TSH Receptor
- Blood Gas
- BNP
- Cardiac
- Cerebrospinal Fluid (CSF)
- Clinical Chemistry
- Coagulation
- CYFRA 21-1
- ESR
- Glycated Haemoglobin (HbA1c)
- Haematology
- Human Urine
- Immunoassay
- Immunoassay Speciality I
- Immunoassay Speciality 2

- Immunosuppressant Drugs
- Lipid
- Liquid Cardiac
- Maternal Screening
- Serology Epstein Barr Virus (EBV)
- Serology (HIV/Hepatitis)
- Serology (Syphilis)
- Serology (ToRCH)
- Specific Proteins
- Sweat Testing
- Therapeutic Drugs
- Trace Elements in Blood
- Trace Elements in Serum
- Trace Elements in Urine
- 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 Joint Working Group on Quality Assurance (JWG QA).
- 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 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.

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.

Laboratory Group Reports

The Group Reporting facility enables laboratory groups or chains to monitor the performance of satellite sites. Each affiliated laboratory will receive an individual report 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.



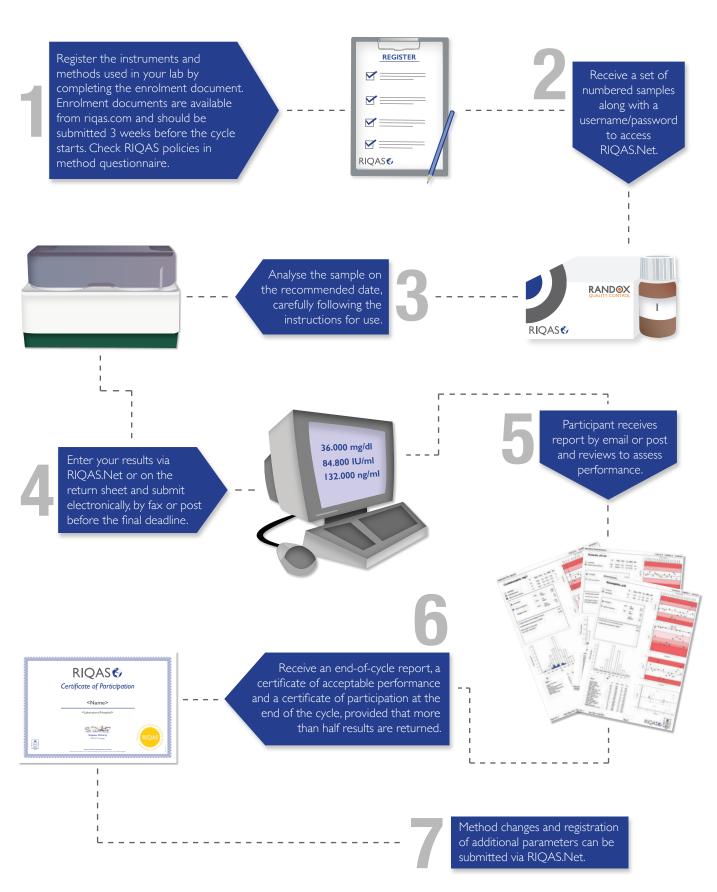






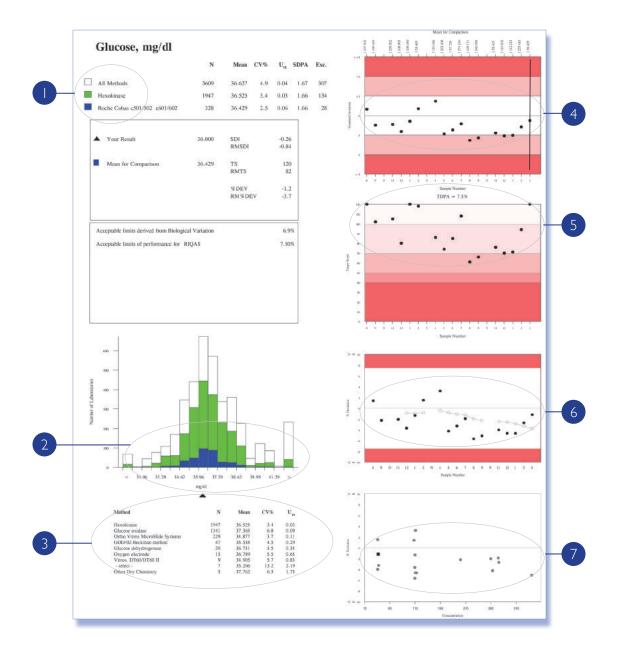
PARTICIPATION IN RIQAS

Participation in RIQAS follows these simple steps:



STANDARD REPORT

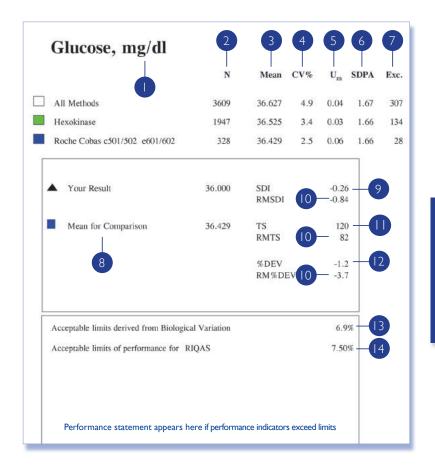
Performance data is presented in a one page format with up to seven sub-reports.



| Text Section: | Statistics for all methods, your method and instrument group (programme specific). |
|------------------------------|---|
| Histogram: | Method and instrument comparison. |
| Multi-Method Stat Section: | Enables assessment of the performance of each method. |
| Levey-Jennings Chart: | Details features of your laboratory's performance. |
| Target Score: | This unique chart provides a numerical index of performance, allowing at-a-glance assessment. |
| %Deviation by Sample: | Helps to identify trends and shifts in performance. |
| %Deviation by Concentration: | 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.
- Average value of all laboratories' results.
- Coefficient of Variation.
- Uncertainty associated with the Mean for Comparison.

$$U_{m} = \frac{1.25 \times SD}{\sqrt{n}}$$

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

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

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 $_{\rm m}$ > (0.3 x SDPA) then SDPA $_{\rm adjusted}$ = $\sqrt{\rm (}$ U $_{\rm m}^2$ + SDPA 2) and the reported value is suffixed with "a"

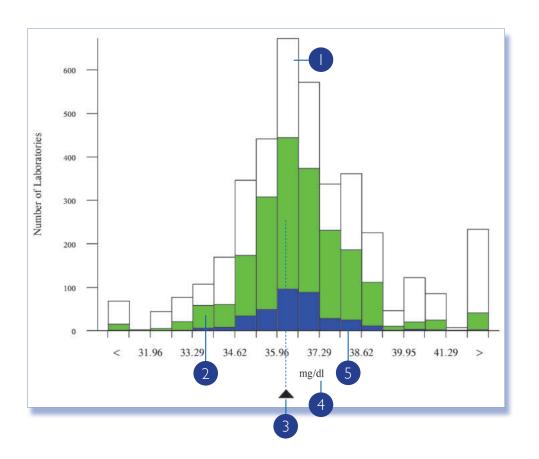
If $U_{\rm m}$ is less than (0.3 \times SDPA) then SDPA $_{\rm adjusted}$ = SDPA

- 7 After statistical reduction, some results are excluded.
- 8 Ideally this will be your instrument group mean. If N<5 for instrument group, your method group Mean is selected as Mean for Comparison.
- Standard Deviation Index = Your Result Mean for Comparison SDPA
- 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.
- %Deviation from the Mean for Comparison the closer the value is to zero, the better the performance.
- Biological Variation stated for information purposes only.
- Performance limit set for this parameter.

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.







2 58 laboratories reported values between 33.29 and 33.96 in your method group.

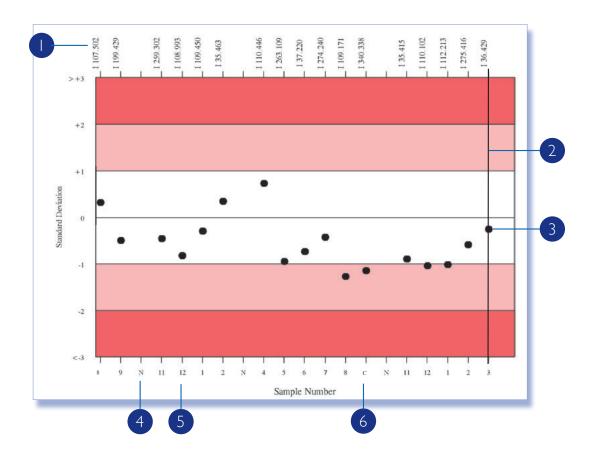
3 Your result is indicated by the black triangle.

25 laboratories reported values between 37.96 and 38.62 in your instrument group.

⁴ RIQAS reports show your unit of measurement.

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.





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

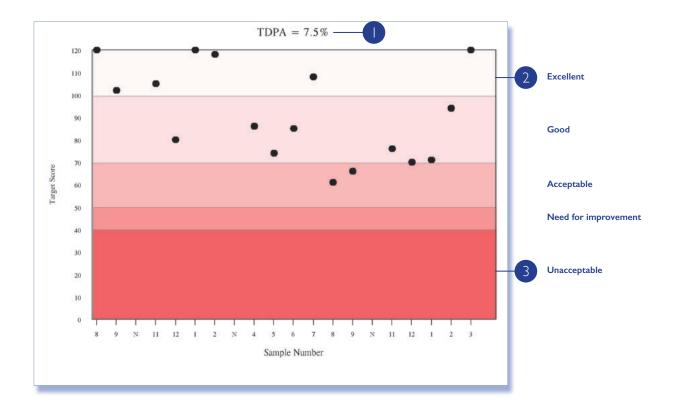
3 Your SDI (Standard Deviation Index).

N = No result returned from your laboratory.
 Sample number.
 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.

R = Incorrect results can be removed retrospectively on request.

TARGET SCORE CHART

The Target Score (TS) allows participants to assess their 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).



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.

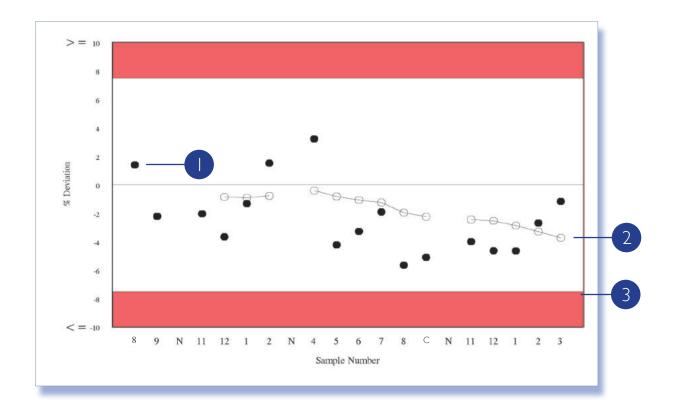
⁴ High scores ≥50 in the lighter shaded area represents acceptable, good or excellent performance.

Heavy shading for values 10 to 50 signifies poor performance.

%DEVIATION BY SAMPLE CHART

This chart helps to identify trends and shifts in performance.

$$%Deviation = \frac{Your Result - Consensus Mean}{Consensus Mean} \times 100\%$$



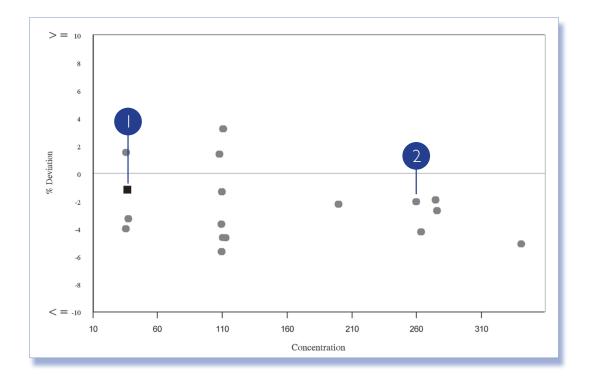


Plot of Running Mean %Deviations (average of the last 10 %Deviations for the sample indicated).

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

%DEVIATION BY CONCENTRATION CHART

This chart enables rapid assessment of concentration related biases. Biases at low or high concentrations can be easily determined.



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 | 1947 | 36.525 | 3.4 | 0.03 |
| Glucose oxidase | 1341 | 37.365 | 6.8 | 0.09 |
| Ortho Vitros MicroSlide Systems | 229 | 34.877 | 3.7 | 0.11 |
| GOD/02-Beckman method | 47 | 35.538 | 4.5 | 0.29 |
| Glucose dehydrogenase | 20 | 36.731 | 3.5 | 0.35 |
| Oxygen electrode | 15 | 36.789 | 5.5 | 0.65 |
| Vitros, DT60/DT60 II | 9 | 34.905 | 5.7 | 0.83 |

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.

| Analyte | Mean for Comparison | Your Result | SDI | RMSDI | %DEV | RM%DEV | TS | RMTS | Performance |
|----------------------|------------------------|----------------|-------|-----------|------------|-----------|------|--------|--------------|
| Albumin | 2.120 | 2.230 | 1.00 | 0.37 — | 5.2 | 2.0 | 72 | 107 | |
| Alkaline Phosphatase | 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 | | 3 78 | 100 — | 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 - 2 |
| 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 | <u>2.4</u> | 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 | |
| Iron | 97.374 | 99.000 | 0.28 | 0.01 | 1.7 | 0.1 | 120 | 114 | |
| Lactate (Pilot) | | No Result | | 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 | |
| TIBC | 133.143 | 133.000 | -0.01 | -0.01 | -0.1 | -0.1 | 120 | 117 | |
| Trig 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 | |
| | | | ORM | SDI -0.05 | ORM | M%DEV 0.8 | ORM | TS 102 | |



Red triangle appears when all performance indicators (SDI, %DEV and TS) exceed acceptable performance, i.e. when

SDI > 2

TS < 50

%DEV > acceptable limits set

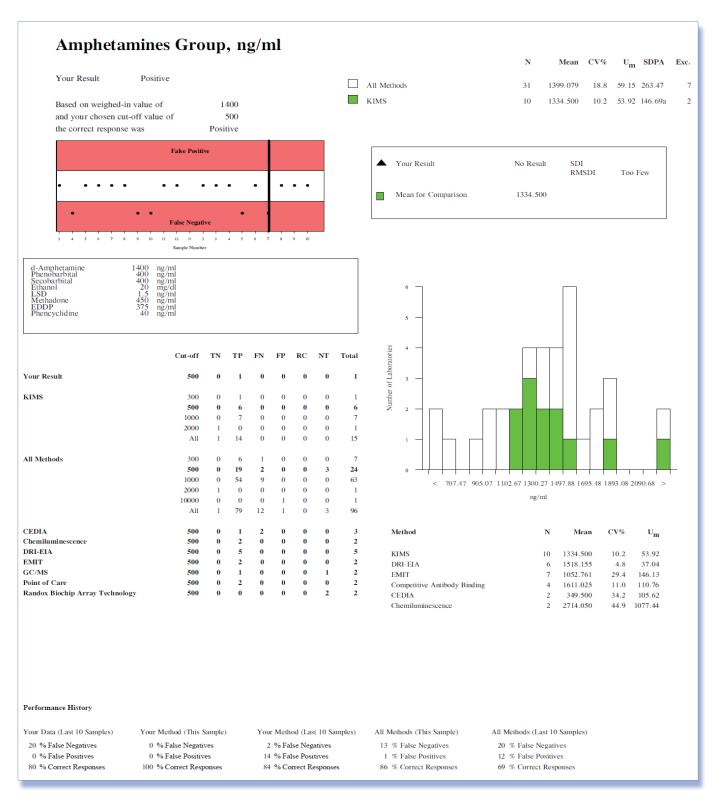
| 3 | RM %DEV - Average of the last 10 %DEV for this parameter. |
|---|---|
| 4 | RMTS - Average of the last 10 Target Scores for this parameter. |
| 5 | Overall RMSDI = average RMSDI for this sample distribution. |
| 6 | Overall RM%DEV = average RM%DEV for this sample distribution. |
| 7 | Overall RMTS = average RMTS for this sample distribution. |

URINE TOXICOLOGY REPORT

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

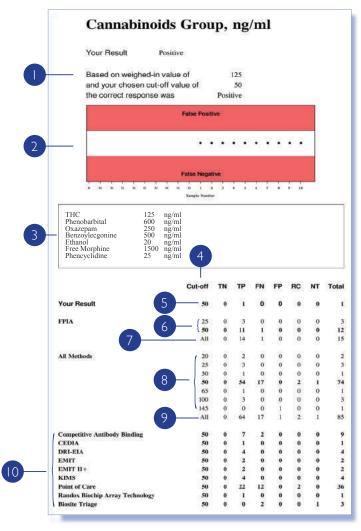
Screening Section

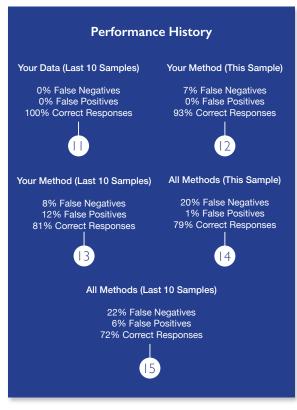
Quantitative Section



URINE TOXICOLOGY REPORT SCREENING SECTION

Qualitative comparison of screening results available for each parameter.





Screening Text Section.
 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

Screening Summary: Your screening result shown in the appropriate

Screening results for all cut-offs returned for this sample within your

response category and your cut off for this sample.

method group.

Screening results for all cut-offs returned for this sample over all methods.

Total screening results over all cut-offs for all methods.

Screening 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.

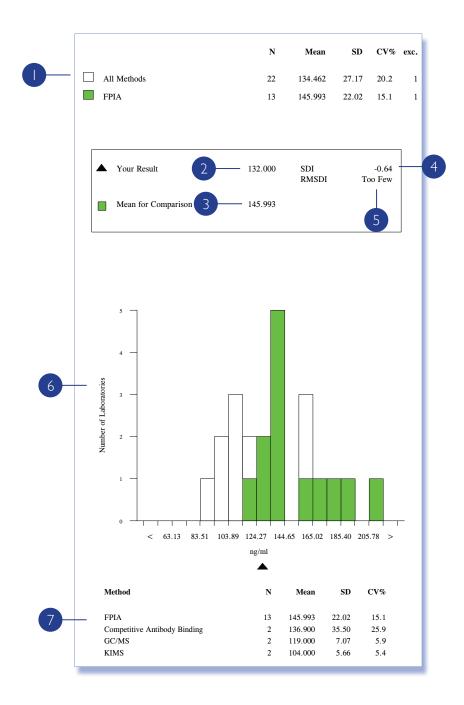
Performance of all methods over all cut-offs for this sample.

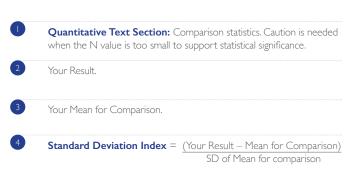
Performance history of all methods over all cut-offs, based on the previous 10 samples.

Total screening results over all your cut-offs for your laboratory's

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.

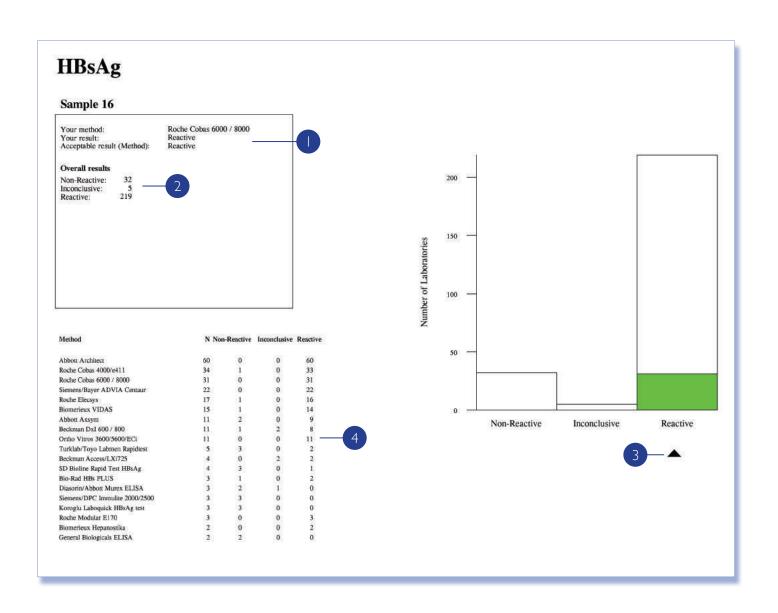
Screening Results Glucose, ARB01 -All Categories (2) Your Categories NORM 159 All Methods (Your Cates 201 195 All Methods (All Categories) 542 195 -1010 All Categories Your Categori Method Roche Combur Siemens Multistis Arkray/Menarini Dirai URIstit YD Diagnostics / Bit ris Velocity Acon Laboratories Erba Lachema Iris Standard Diagnostic Human Combina Macherey-Nagel 8 102 62 56 6 23 18 15

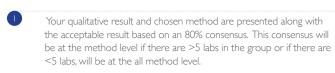
Macherey-Nagel AMP Diagnostics Analyticon Comb DFI - Cybow Your Result. Comments Box.

Categories are stated in your unit. Your method group and categories. All categories (result options) available for this parameter for any Results from all methods (dipsticks) returning results in the same Your categories (available result options for chosen dipstick and unit). categories as your lab. Results from all methods for all available categories. Your Result. All Categories Histogram: a quick visualisation of how your lab's result falls into the overall picture for all categories. Performance Statement. Results submitted from a category not applicable to your method. Your Categories Histogram: A quick visualisation of how your lab's Your categories. result falls into the overall picture for your categories. **Detailed summary of results:** This table enables you to see how you Possible reporting categories for your method. compare to all other results. All available methods for this parameter.

SEROLOGY: SCREENING (QUALITATIVE) REPORT

Your performance for multiple samples is presented in a convenient single report per quarterly distribution.





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:

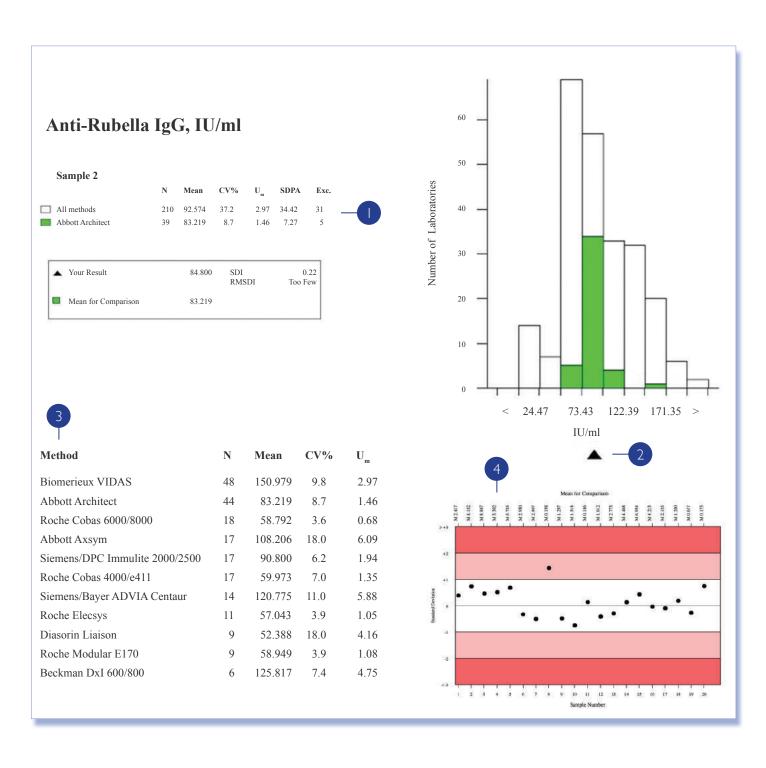
All Methods

Your Method

Summary shows performance of all the methods used to analyse the parameter:

SEROLOGY: SCREENING (QUANTITATIVE) REPORT

Your performance for multiple samples is presented in a convenient single report per quarterly distribution.





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

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

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

All Methods

Your Method

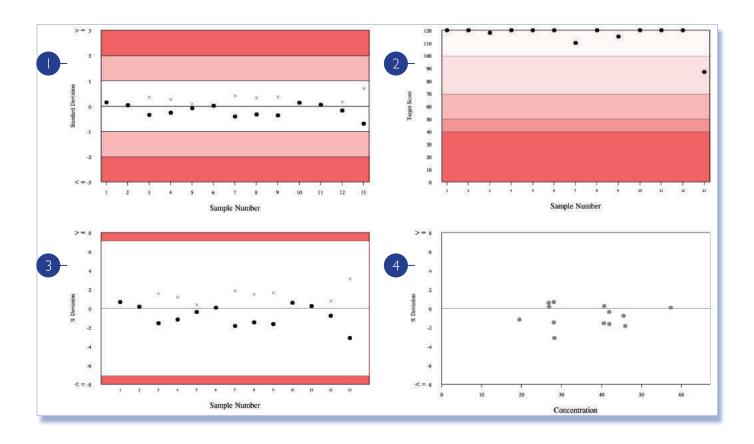
QUANTITATIVE END-OF-CYCLE REPORT

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

Albumin, g/l Method: Bromocresol Purple Instrument: Siemens/Dade Dimension RxL/Max/Xpand Reagent: Siemens/Dade Behring RIQAS TDPA: 7.1% **Biological Variation:** Mean for % Deviation Unit N CV% Um SDPA SDI TS Sample Result 0.10 28.200 28.013 2.4 1.26 0.15 120 0.67 2 26.900 g/1 87 26.853 2.7 0.10 1.21 0.04 120 0.17 3 39.900 g/1 71 40.531 2.5 0.15 1.82 -0.35 118 -1.56 4 19.200 g/1 81 19.429 2.5 0.07 0.87 -0.26 120 -1.18 41.700 67 41.859 2.0 0.13 1.88 -0.08 120 -0.38 g/1 6 57.300 g/1 87 57.257 2.7 0.21 2.58 0.02 120 0.08 45.000 72 45.850 2.1 0.14 2.06 -0.41 -1.85 g/1 110 g/1 8 27.600 87 28.013 2.5 0.09 1.26 -0.33120 -1.47 41.200 g/1 70 41.891 2.2 0.14 1.88 -0.37 115 -1.65 10 26.900 g/1 26,742 3.3 0.12 1.20 120 0.59 83 0.13 40,700 0.14 0.05 11 71 40.601 2.2 1.83 120 0.24 g/12.04 12 45.100 g/l 80 I 45.456 2.2 0.14 -0.17120 -0.7828.179 -0.69 13 27,300 g/1 63 0.09 1.27 -3.12Cycle 45 Cycle 46 Cycle Average SDI -0.23-0.18Cycle Average TS 110 116 Cycle Average %DEV -1.05-0.79Cycle Average Absolute SDI 0.36 0.24 1.06 Cycle Average Absolute %DEV 1.63 110 100 70 60 50 30 10 12 Sample Number Sample Number Sample Number

CHART SECTION (END-OF-CYCLE 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 |
| 2 | Target Score chart | Shows your Target Scores for a full cycle. |
| 3 | %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 |
| 4 | %Deviation by Concentration chart | Shows your results for a full cycle. |

TEXT SECTION (END-OF-CYCLE REPORT)

The text section summarises the statistical information for all samples.



Method: Bromocresol Purple

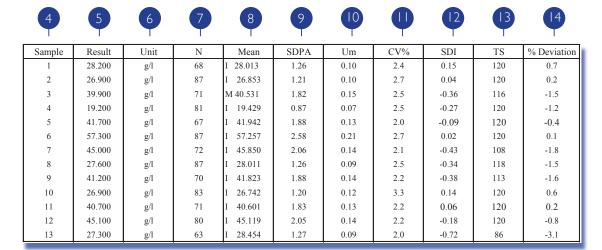
Instrument: Siemens/Dade Dimension RxL/Max/Xpand

Reagent: Siemens/Dade Behring

3 - RIQAS TDPA: 7.1% Biological Variation: 3.9%

Your assay details at the end of the cycle.

The RIQASTDPA and biological variation for the parameter are shown if available.





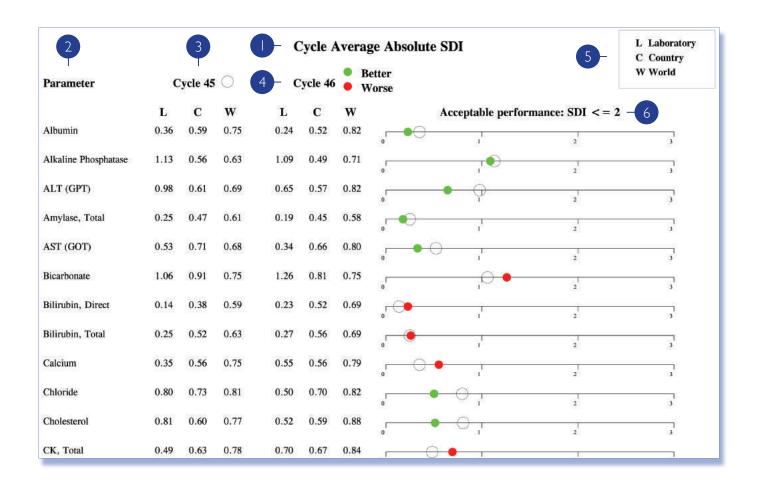
| | | Cycle 45 | Cycle 46 | |
|------|-----------------------------|----------|----------|---|
| | Cycle Average SDI | -0.23 | -0.18 | |
| 15 – | Cycle Average TS | 110 | 116 | |
| | Cycle Average %DEV | -1.05 | -0.79 | |
| | Cycle Average Absolute SDI | 0.36 | 0.24 | |
| 16- | Cycle Average Absolute %DEV | 1.63 | 1.06 | |
| | • | | | |
| | i | | | Table containing a summary of your performance for |
| | L | | | previous cycle and current cycle, including Average |
| | | | | Absolute SDIs and %Deviations. |
| | | | | Absolute 3DIs and 70Deviations. |

TEXT SECTION (END-OF-CYCLE REPORT)

| | Report presented in your chosen unit | Cycle average of your pe Index, Target Score and 9 | erformance indicators – Standard Deviation %Deviation |
|----|--|---|---|
| 2 | Your assay details as of the last sample | | (Sum of SDIs returned for the completed cycle) |
| 3 | RIQASTDPA and Biological variation | Cycle Average SDI = | (Number of samples returned in cycle |
| 4 | Sample number | Cycle Average | (Sum of your Target Scores returned for the completed cycle) |
| 5 | Your results for each sample | Cycle Average Target Score = | |
| 6 | Unit your result was returned in | | (Sum of your %Deviations returned |
| 7 | Number of results used for statistical analysis | Cycle Average %Deviation = | for the completed cycle) (Number of samples returned in cycle |
| 8 | Mean for Comparison | | , |
| 9 | SDPA = Standard Deviation for performance assessment | Absolute values show ho | Ite values of your SDI and %Deviation. Ow far a value is from zero regardless of the of the magnitude of accuracy. |
| 10 | Uncertainty of Mean for Comparison | agri. This is air indication | or the magnitude of accuracy. |
| | Coefficient of Variation (%) | Cycle Average | (Sum of your Absolute SDIs returned for the completed cycle) |
| | (., | Absolute SDI = | (Number of samples returned in cycle |
| 12 | Your Standard Deviation Index | | |
| 13 | Your Target Score | Cycle Average Absolute %Deviation | (Sum of your Absolute %Deviations returned for the completed cycle) |
| | V 000 : 1: | Absolute %Deviation = | (Number of samples returned in cycle |
| 14 | Your %Deviation | | |

CURRENT & PREVIOUS CYCLE ABSOLUTE SDIS (END-OF-CYCLE REPORT)

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



| Report title - Cycle Average Absolute SDI | This shows your performance this cycle compared to the previous cycle. |
|---|--|
| 2 Parameter list | List of all parameters registered. |
| 3 Results for previous cycle | Indicated by open circle on the chart. |
| 4 Results for current cycle | Indicated by a closed circle on the chart. |
| 5 Legend | Cycle Average Absolute SDIs are shown for: |
| | L Your results throughout the cycle C All labs within your own country W All labs Worldwide |
| 6 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. |

CERTIFICATE OF PERFORMANCE (END-OF-CYCLE 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 criteria. Any parameters not included on the Certificate of Acceptable Performance will be listed on the Notification of Unacceptable Performance.

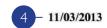


CERTIFICATE OF ACCEPTABLE PERFORMANCE

RIQAS Department Randox Laboratories CRUMLIN COUNTY ANTRIM BT29 4QY UNITED KINGDOM







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 \leq 2) for the following parameters:





| Albumin - Bromocresol Purple - Siemens/Dade Dimension RxL/Max/Xpand | 0.50 |
|--|------|
| Alkaline Phosphatase - Dade Dimension, AMP buffer - Siemens/Dade Dimension RxL/Max/Xpand | 1.22 |
| ALT (GPT) - Tris buffer with P5P - Siemens/Dade Dimension RxL/Max/Xpand | 0.53 |
| Amylase, Total - Dade Behring 2-chloro-pNPG3 - Siemens/Dade Dimension RxL/Max/Xpand | 0.34 |
| AST (GOT) - Tris buffer with P5P - Siemens/Dade Dimension RxL/Max/Xpand | 0.55 |
| Bicarbonate - Enzymatic - Siemens/Dade Dimension RxL/Max/Xpand | 1.08 |
| Bilirubin, Direct - Diazo with Sulphanilic Acid - Siemens/Dade Dimension RxL/Max/Xpand | 0.19 |
| Bilirubin, Total - Diazo with Sulphanilic Acid - Siemens/Dade Dimension RxL/Max/Xpand | 0.26 |
| Calcium - Cresolphthalein complexone - Siemens/Dade Dimension RxL/Max/Xpand | 0.49 |
| Chloride - ISE, indirect - Siemens/Dade Dimension RxL/Max/Xpand | 0.70 |
| Cholesterol - Dimension-Dade Behring reagents - Siemens/Dade Dimension RxL/Max/Xpand | 0.54 |
| CK, Total - CK-NAC (IFCC) - Siemens/Dade Dimension RxL/Max/Xpand | 0.26 |
| Creatinine - Alkaline picrate no deprot Siemens/Dade Dimension RxL/Max/Xpand | 0.44 |
| GGT - Gamma glut'3-carb'4-nitro (IFCC) - Siemens/Dade Dimension RxL/Max/Xpand | 0.25 |
| Glucose - Hexokinase - Siemens/Dade Dimension RxL/Max/Xpand | 0.70 |

| | 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 for which cycle absolute SDI is ≤ 2. |
| 6 | Average Absolute SDI | Your Cycle Average Absolute SDI. |

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:

I. 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
- Recalibrate instrument
- Review reagent/sample storage
- 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. Re-run 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.

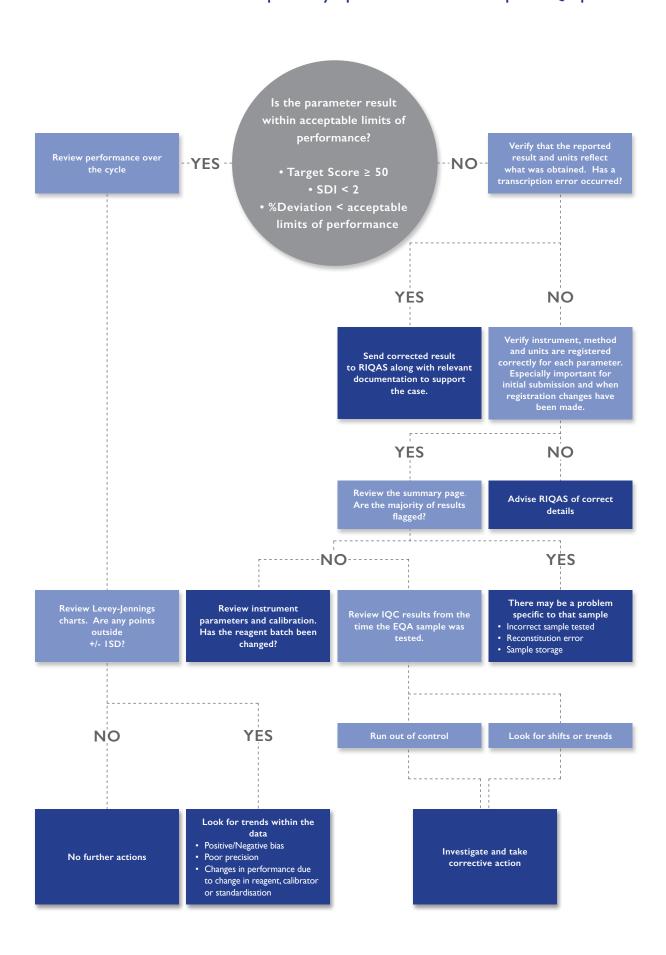
MONITORING EQA PERFORMANCE

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.

| Cycle Number: | Sample Number: | | | | |
|---|------------------------|---|--|--|--|
| Analysis Date: | Analyte: | | | | |
| Mean for Comparison: | Lab Result: SDI: %Dev: | | | | |
| I. Specimen Handling | | d. Random IQC variation on sample analysis date | | | |
| a. Samples received in good condition | N | e. Error due to imprecision; check IQC in terms of | | | |
| b. Samples stored/prepared appropriately | N | %Deviation compared to deviation observed in EQA | | | |
| c. Integrity of the sample is acceptable | N | f. IQC target correctly assigned | | | |
| 2. Clerical | | 5. Calibration | | | |
| a. Correct result entered | N | a. Date of last calibration | | | |
| b. Correct use of decimal point and units | N | b. Calibration frequency acceptable | | | |
| c. Calculations, if any, performed correctly (even if automated) | N | c. Last calibration acceptable | | | |
| d. Conversion factors applied to results before submission | N | 6. Instrument | | | |
| | | a. Daily maintenance performed on date of sample analysis 🕚 🛭 | | | |
| 3. Registration and Mean for Comparison | | b. Special maintenance performed prior to sample analysis 💜 🛮 | | | |
| a. Registered in the correct method/instrument group | N | c. Instrument operated correctly | | | |
| b. Changed method or instrument without advising RIQAS | N | d. Operator fully trained | | | |
| c. Mean for comparison changed due to the number of | | 7. Reagents | | | |
| participants returning results e.g. from method to instrument $$ | N | a. Reagents prepared and stored correctly | | | |
| d. An obvious bias between method and instrument means (check histogram and stats sections) | N | b. Reagents within open vial stability | | | |
| | | 8. EQA sample | | | |
| 4. Internal Quality Control | | a. Initial value | | | |
| a. %Deviation of IQC (at similar conc to that of EQA) on | | b. Re-run value | | | |
| sample analysis date acceptable | N | c. Issue observed in previous EQA samples at a similar | | | |
| b. Shift in IQC in the periods just before and after EQA sample analysis | N | concentration (check %Deviation by concentration and Levey Jennings charts) | | | |
| c.Trends in IQC in the periods before and after EQA | | d. All parameters affected (to the same extent) - possible | | | |
| sample analysis | N | reconstitution error (check %Deviation on summary pages) 🕦 | | | |
| Conclusion: | •••••• | Remedial Action: | | | |
| | | | | | |
| Lab Manager: 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.



Lactate

Ammonia/Ethanol Programme+

RQ9164 (2 ml) 2 Parameters

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

Ammonia Ethanol

Anti-TSH Receptor Programme+



RQ9174 (1 ml) I Parameter

Samples every month, 1 \times 12 month cycle, 12 month subscription

Anti-TSH Receptor (TRAb)

Blood Gas Programme With target scoring



RQ9134 (1.8 ml) RQ9134/A (1.8 ml) First registered instrument Subsequent instruments 10 Parameters 10 Parameters Samples every month, 1 x 12 month cycle, 12 month subscription

CO₂(Total) рΗ Ca++ Na+ рO, Cl-Glucose

BNP Programme+



RQ9165 (1 ml) I 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

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

Cerebrospinal Fluid Programme+



RQ9168 (3 ml) 12 Parameters

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

α-2-globulin (electrophoresis) γ-globulin (electrophoresis) Albumin (electrophoresis) β-globulin (electrophoresis) Glucose Protein (Total) α -I-globulin (electrophoresis) Chloride lgG Sodium

Coagulation Programme With target scoring



RQ9135/a (1 ml) RQ9135/b (1 ml) 5 Selected parameters only Full 17 Parameters (aPTT, PT, TT, Fibrinogen, Ántithrombin III) Samples every month, 1 x 12 month cycle, 12 month subscription

Factor VII Plasminogen PT (including INR) FactorVIII Protein C Factor IX Protein S Fibrinogen Factor II Factor X Antithrombin III Factor V Factor XI





PURPLE = The only parameters available on RQ9135/a

+ = Not accredited

Factor XII

D-dimer*

CYFRA 21-1 Programme+



RQ9175 (1 ml)

I Parameter

Samples every month, I x I2 month cycle, I2 month subscription

CYFRA 21-1 (Cytokeratin 19)

ESR Programme+



RQ9163 (4.5 ml)

I Parameter

2 samples per quarterly distribution, 1 \times 12 month cycle, 12 months subcription

ESR (Erythrocyte Sedimentation Rate)

General Clinical Chemistry Programme With target scoring



RQ9112/S (5 ml) 17 Parameters only Full 52 Parameters 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)

Calcium Calcium (Ionised) Chloride Cholesterol Cholinesterase CK, Total (CPK) Copper D-3-Hydroxybutyrate Fructosamine γGT GLDH Glucose

HBDH HDL-Cholesterol Iron Lactate LD (LDH) Lipase Lithium Magnesium NFFA Osmolality Phosphate (Inorganic) Potassium Protein (Total)

PSA Sodium TIBC T₃ (Free) T₃ (Total) T₄ (Free) T₄ (Total) Triglycerides TSH LJIBC Urea Uric Acid 7inc

Glycated Haemoglobin Programme (HbAIc) With target scoring



RQ9129 (0.5ml)

2 Parameters

Bilirubin (Total)

Samples every month, 1 \times 12 month cycle, 12 month subscription

Total Haemoglobin

Haematology Programme With target scoring



RQ9118 (2 ml) II Parameters

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

Haematocrit (HCT) Haemoglobin (Hb) Mean Cell Haemoglobin (MCH)

Mean Cell Haemoglobin Concentration (MCHC) Mean Cell Volume (MCV) 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 (10 ml)

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

Albumin/Microalbumin Amylase Calcium. Chloride Copper Cortisol

Creatinine Dopamine Epinephrine Glucose Metanephrine Norepinephrine

Normetanephrine Magnesium Osmolality Oxalate Phosphate (Inorganic) Potassium

Protein (Total) Sodium Urea Uric Acid VMA 5-HIAA

= Liquid ready-to-use samples



PURPLE = The only parameters available on RQ9135/a

+ = Not accredited

Immunoassay Programme With target scoring



| RQ9125/a (5 ml) RQ9125/b (5 ml) RQ9125/c (5 ml) RQ9130 (5 ml) 4 Parameters only (choose from 55) 13 Parameters only (choose from 55) Full 55 Parameters Samples every two weeks, 2 x 6 monthly cycles, 12 month subscription (RQ9125/a, RQ9125/b, RQ9125/c) Samples every month, 1 x 12 month cycle, 12 month subscription (RQ9130) | | | | |
|---|-------------------|------------------------|------------------------------------|--|
| ACTH | DHEA Unconjugated | 17-OH-Progesterone | T ₄ (Free) | |
| AFP | Digoxin | Paracetamol | T ₄ (Total) | |
| Aldosterone | Estriol Total* | Phenobarbital | Testosterone (Free)* | |
| Amikacin | Ethosuximide* | Phenytoin | Testosterone (Total) | |
| Androstenedione | Ferritin | Primidone* | Theophylline | |
| β-2-Microglobulin | Folate | Progesterone | Thyroglobulin | |
| CA125 | FSH | Prolactin | Tobramycin* | |
| CA15-3 | Gentamicin | PSA (Free) | TSH | |
| CA19-9 | GH | PSA (Total) | Valproic Acid | |
| Carbamazepine | hCG | PTH | Vancomycin | |
| CEA | IgE | Salicylate | Vitamin B12 | |
| Cortisol | Insulin | SHBG | I-25-(OH) ₂ -Vitamin D* | |
| C-Peptide | LH | T, (Free) | 25-OH-Vitamin D | |
| DHEA-Sulphate | Oestradiol | T ₃ (Total) | | |

Immunoassay Speciality I Programme+ With target scoring

IGF-I



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

-25-(OH),-Vitamin D Anti-TG Osteocalcin 25-OH-Vitamin D Anti-TPO Procalcitonin

Immunoassay Speciality 2 Programme+



PTH

RQ9142 (2 ml) 5 Parameters

C-Peptide

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

Calcitonin Procalcitonin Plasma Renin Activity Renin (Direct Concentration) Gastrin

Immunosuppressant Programme+



RQ9159 (2 ml) 4 Parameters

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

Sirolimus Tacrolimus Cyclosporine Everolimus

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

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

Liquid Cardiac Programme With target scoring



RQ9136 (3 ml) 9 Parameters

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

CK-MB Mass Homocysteine Myoglobin Troponin I D-dimer hsCRP NT proBNP Digoxin





PURPLE = The only parameters available on RQ9135/a

+ = Not accredited

Maternal Screening Programme With target scoring



RQ9137 (1 ml) 6 Parameters

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

Total hCG PAPP-A Unconjugated Oestriol free β -hCG Inhibin A

Serology (EBV) Programme+



RQ9153 (1 ml)

Anti-EBV VCA IgG

3 Parameters

3 samples per quarterly distribution, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Serology (HIV-Hepatitis) Programme+



RQ9151 (1.8 ml)

10 Parameters 5 samples per quarterly distribution, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-HIV-I Anti-HTLV-1&2 Combined

Anti-HIV-1&2 Combined Anti-HTLV-I Anti-CMV

Anti-EBNA IgG

Serology (Syphilis) Programme+



RQ9154 (1 ml)

I Parameter

3 samples per quarterly distribution, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

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

Serology (ToRCH) Programme+



RQ9152 (1 ml)

12 Parameters

5 samples per quarterly distribution, 1 x 12 month cycle, 12 month subscription, Quantitative and Qualitative results

Anti-Rubella IgM Anti-HSV I IgM Anti-Toxoplasma IgG Anti-CMV IgG Anti-HSV 2 IgM Anti-Toxoplasma IgM Anti-Rubella IgG Anti-CMV IgM Anti-HSV-1&2 IgG Combined Anti-HSV I + 2 IgM Combined

Specific Proteins Programme With target scoring



| RQ9114 (3 ml) 26 Parameters | RQ9160 (2 ml) | RQ9161 (1 ml) | | | |
|--|--------------------|---------------------------|----------------------------|--|--|
| Samples every 2 weeks, 2 x 6 monthly cycles, 12 month subscription | | | | | |
| AFP | β-2-Microglobulin | IgA | Lambda Light Chain (Total) | | |
| Albumin | Ceruloplasmin | lgE | Prealbumin (Transthyretin) | | |
| α-I-Acid glycoprotein | Complement C, | lgG | Retinol Binding Protein | | |
| α-I-Antitrypsin | Complement C | IgM | Rheumatoid Factor | | |
| α-2-Macroglobulin | C-Reactive Protein | Kappa Light Chain (Free) | Transferrin | | |
| Anti Streptolysin O | Ferritin | Kappa Light Chain (Total) | | | |

Sweat Testing Programme+



RO9173 (2 ml)

Antithrombin III

3 Parameters

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

Sodium Chloride

Haptoglobin





PURPLE = The only parameters available on RQ9135/a

Lambda Light Chain (Free)

+ = Not accredited

RIQAS PROGRAMMES

Therapeutic Drugs Programme With target scoring



18 Parameters

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

Ethosuximide Amikacin Caffeine Gentamicin Carbamazepine Lithium Cyclosporine Methotrexate Digoxin

Paracetamol (Acetaminophen)

Phenobarbital Phenytoin Primidone Salicylic Acid Theophylline

Tobramycin Valproic Acid Vancomycin

7inc

Trace Elements In Blood Programme+



RQ9172 (3 ml) 7 Parameters

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

Copper Lead Manganese lodine Magnesium Selenium

Trace Elements In Serum Programme+



RQ9170 (3 ml) 10 Parameters

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

Copper Manganese Chromium Indine Nickel Cobalt Selenium Lead

Trace Elements In Urine Programme+



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

Magnesium Copper Manganese Thallium Cobalt Molybdenum

Urinalysis Programme+



RQ9138 (12 ml)

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

Albumin Galactose Leukocytes Specific Gravity Bilirubin Glucose Nitrite Ürobilinogen Blood hCG рΗ Creatinine Ketones Protein

Urine Toxicology Programme+



RQ9139 (5 ml) 20 Parameters

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

d-Methamphetamine Benzoylecgonine EDDP Buprenorphine Cannabinoids (THC) Ethanol Cotinine* Free Morphine Creatinine Lorazepam d-Amphetamine LSD

Methadone Nortriptyline Norpropoxyphene Phencyclidine

Phenobarbital

= Liquid ready-to-use samples



PURPLE = The only parameters available on RQ9135/a

+ = Not accredited

* = Pilot study ongoing

| + = No | t accredited | + | ŧ | | | | + P | | | | hemistry | | | | | iality I + | iality 2 + |
|---------------|---|---------------------|---------------------|-----------|-------|---------|-----------------------|-------------|--------------|-------|----------------------------|-------|-------------|-------------|-------------|----------------------------|--------------------------|
| * = Pilo | t study ongoing | Ammonia / Ethanol + | Anti-TSH Receptor + | Sas | | | Cerebrospinal Fluid + | ation | 21-1 + | | General Clinical Chemistry | | tology | Urine | oassay | Immunoassay Speciality I + | Immunoassay Speciality 2 |
| PURPLE | = The only parameters available on RQ9135/a | Ammor | Anti-TS | Blood Gas | BNP + | Cardiac | Cerebro | Coagulation | CYFRA 21-1 + | ESR + | Genera | HbAIc | Haematology | Human Urine | Immunoassay | Immune | Immune |
| # | I-25-(OH) ₂ -Vitamin D* ¹ | | | | | | | | | | | | | | Х | Х | |
| | 17-OH-Progesterone | | | | | | | | | | | | | | Х | | |
| | 25-OH-Vitamin D | | | | | | | | | | | | | | Х | Х | |
| | 5-HIAA | | | | | | | | | | | | | Χ | | | |
| Α | α- I -Acid Glycoprotein | | | | | | | | | | | | | | | | |
| | α- I - Antitryspin | | | | | | | | | | | | | | | | |
| | lpha-I-Globulin (Electrophoresis) | | | | | | X | | | | | | | | | | |
| | α-2-Globulin (Electrophoresis) | | | | | | X | | | | | | | | | | |
| | α-2-Macroglobulin | | | | | | | | | | | | | | | | |
| | ACE (Angiotensin Converting Enzyme) | | | | | | | | | | Х | | | | | | |
| | Acid Phosphatase (Prostatic) | | | | | | | | | | Х | | | | | | |
| | Acid Phosphatase (Total) | | | | | | | | | | Х | | | | | | |
| | ACR | | | | | | | | | | | | | Х | | | |
| | ACTH | | | | | | | | | | | | | | Х | | |
| | AFP | | | | | | | | | | | | | | Х | | |
| | Albumin | | | | | | X | | | | Х | | | Х | | | |
| | Albumin (Electrophoresis) | | | | | | X | | | | | | | | | | |
| | Aldosterone | | | | | | | | | | | | | | X | | |
| | Alkaline Phosphatase | | | | | | | | | | Х | | | | | | |
| | ALT (ALAT) | | | | | | | | | | Х | | | | | | |
| | Aluminium | | | | | | | | | | | | | | | | |
| | Amikacin | | | | | | | | | | | | | | Х | | |
| | Ammonia | Х | | | | | | | | | | | | | | | |
| | Amylase (Pancreatic) | | | | | | | | | | Х | | | | | | |
| | Amylase (Total) | | | | | | | | | | Х | | | Χ | | | |
| | Androstenedione | | | | | | | | | | | | | | Х | | |
| | Anti Streptolysin O (ASO) | | | | | | | | | | | | | | | | |
| | Anti-CMV | | | | | | | | | | | | | | | | |
| | Anti-CMV IgG | | | | | | | | | | | | | | | | |
| | Anti-CMV IgM | | | | | | | | | | | | | | | | |
| | Anti-EBNA IgG | | | | | | | | | | | | | | | | |
| | Anti-EBV VCA IgG | | | | | | | | | | | | | | | | |
| | Anti-EBV VCA IgM | | | | | | | | | | | | | | | | |
| | Anti-HBc | | | | | | | | | | | | | | | | |
| | Anti-HCV | | | | | | | | | | | | | | | | |
| | Anti-HIV-I | | | | | | | | | | | | | | | | |
| | Anti-HIV-I & 2 Combined | | | | | | | | | | | | | | | | |
| | Anti-HIV-2 | | | | | | | | | | | | | | | | |
| | Anti-HSV- I & 2 IgG Combined | | | | | | | | | | | | | | | | |
| | Anti-HSV- I & 2 IgM Combined | | | | | | | | | | | | | | | | |

| Immunosuppressant + | P | Liquid Cardiac | Maternal Screening | Serology (EBV) + | Serology (HIV / Hepatitis) + | Serology (Syphilis) + | Serology (ToRCH) + | Specific Proteins | Sweat Testing + | Therapeutic Drug | Trace Elements in Blood + | Trace Elements in Serum + | Trace Elements in Urine + | Urinalysis + | Urine Toxicology + | + = Not accredited * = Pilot study ongoing | |
|---------------------|-------|----------------|--------------------|------------------|------------------------------|-----------------------|--------------------|-------------------|-----------------|------------------|---------------------------|---------------------------|---------------------------|--------------|--------------------|--|---------|
| lmm mm | Lipid | Liqu | Mat | Serc | Sero | Serc | Serc | Spec | Swe | The | Trac | Trac | Trac | in | Urin | PURPLE = The only parameters available on RC | Q9135/a |
| | | | | | | | | | | | | | | | | I-25-(OH)₂-Vitamin D* [△] | # |
| | | | | | | | | | | | | | | | | 17-OH-Progesterone | |
| | | | | | | | | | | | | | | | | 25-OH-Vitamin D | |
| | | | | | | | | | | | | | | | | 5-HIAA | |
| | | | | | | | | Х | | | | | | | | α-I-Acid Glycoprotein | Α |
| | | | | | | | | Х | | | | | | | | α-I-Antitryspin | |
| | | | | | | | | | | | | | | | | α-I-Globulin (Electrophoresis) | |
| | | | | | | | | | | | | | | | | α-2-Globulin (Electrophoresis) | |
| | | | | | | | | Х | | | | | | | | α-2-Macroglobulin | |
| | | | | | | | | | | | | | | | | ACE (Angiotensin Converting Enzyme) | |
| | | | | | | | | | | | | | | | | Acid Phosphatase (Prostatic) | |
| | | | | | | | | | | | | | | | | Acid Phosphatase (Total) | |
| | | | | | | | | | | | | | | | | ACR | |
| | | | | | | | | | | | | | | | | ACTH | |
| | | | Х | | | | | Х | | | | | | | | AFP | |
| | | | | | | | | Х | | | | | | Х | | Albumin | |
| | | | | | | | | | | | | | | | | Albumin (Electrophoresis) | |
| | | | | | | | | | | | | | | | | Aldosterone | |
| | | | | | | | | | | | | | | | | Alkaline Phosphatase | |
| | | | | | | | | | | | | | | | | ALT (ALAT) | |
| | | | | | | | | | | | | X | | | | Aluminium | |
| | | | | | | | | | | Х | | ^ | | | | Amikacin | |
| | | | | | | | | | | ^ | | | | | | Ammonia | |
| | | | | | | | | | | | | | | | | Amylase (Pancreatic) | |
| | | | | | | | | | | | | | | | | Amylase (Total) | |
| | | | | | | | | | | | | | | | | Androstenedione | |
| | | | | | | | | X | | | | | | | | Anti Streptolysin O (ASO) | |
| | | | | | X | | | ^ | | | | | | | | Anti-CMV | |
| | | | | | ^ | | v | | | | | | | | | Anti-CMV IgG | |
| | | | | | | | X | | | | | | | | | | |
| | | | | V | | | X | | | | | | | | | Anti-CMV IgM | |
| | | | | X | | | | | | | | | | | | Anti-EBNA IgG | |
| | | | | X | | | | | | | | | | | | Anti-EBV VCA I M | |
| | | | | X | | | | | | | | | | | | Anti-EBV VCA IgM | |
| | | | | | X | | | | | | | | | | | Anti-HBc | |
| | | | | | X | | | | | | | | | | | Anti-HCV | |
| | | | | | X | | | | | | | | | | | Anti-HIV-I | |
| | | | | | Х | | | | | | | | | | | Anti-HIV-I & 2 Combined | |
| | | | | | Х | | | | | | | | | | | Anti-HIV-2 | |
| | | | | | | | Х | | | | | | | | | Anti-HSV- I & 2 IgG Combined | |
| | | | | | | | Х | | | | | | | | | Anti-HSV- I & 2 IgM Combined | |

| + = No | t accredited | + | + | | | | <u>+</u> | | | | emistry | | | | | ality + | ality 2 + |
|---------------|---|---------------------|---------------------|-----------|-------|---------|-----------------------|-------------|------------|-------|----------------------------|-------|-------------|-------------|-------------|----------------------------|--------------------------|
| * = Pilo | t study ongoing | Ammonia / Ethanol + | Anti-TSH Receptor + | ias | | | Cerebrospinal Fluid + | tion | 21-1 + | | General Clinical Chemistry | | ology | Urine | assay | Immunoassay Speciality + | Immunoassay Speciality 2 |
| PURPLE | E = The only parameters available on RQ9135/a | Ammon | Anti-TS | Blood Gas | BNP + | Cardiac | Cerebro | Coagulation | CYFRA 21-1 | ESR + | General | HbAIc | Haematology | Human Urine | Immunoassay | Immuno | Immuno |
| Α | Anti-HSVI IgG | | | | | | | | | | | | | | | | |
| | Anti-HSVI IgM | | | | | | | | | | | | | | | | |
| | Anti-HSV2 IgG | | | | | | | | | | | | | | | | |
| | Anti-HSV2 IgM | | | | | | | | | | | | | | | | |
| | Anti-HTLV-I & 2 Combined | | | | | | | | | | | | | | | | |
| | Anti-HTLV-I | | | | | | | | | | | | | | | | |
| | Anti-HTLV-II | | | | | | | | | | | | | | | | |
| | Anti-Rubella IgG | | | | | | | | | | | | | | | | |
| | Anti-Rubella IgM | | | | | | | | | | | | | | | | |
| | Anti-TG | | | | | | | | | | | | | | | Х | |
| | Antithrombin III | | | | | | | Х | | | | | | | | | |
| | Anti-Toxoplasma IgG | | | | | | | | | | | | | | | | |
| | Anti-Toxoplasma IgM | | | | | | | | | | | | | | | | |
| | Anti-TPO | | | | | | | | | | | | | | | Х | |
| | Anti-TSH Receptor (TRAb) | | Х | | | | | | | | | | | | | | |
| | Apolipoprotein Al | | | | | | | | | | | | | | | | |
| | Apolipoprotein B | | | | | | | | | | | | | | | | |
| | aPTT | | | | | | | Х | | | | | | | | | |
| | AST (ASAT) | | | | | | | | | | Х | | | | | | |
| В | β-2-Microglobulin | | | | | | | | | | | | | | Х | | |
| | β-Globulin (Electrophoresis) | | | | | | Х | | | | | | | | | | |
| | Benzoylecgonine | | | | | | | | | | | | | | | | |
| | Bicarbonate | | | Х | | | | | | | Х | | | | | | |
| | Bile Acids | | | | | | | | | | Х | | | | | | |
| | Bilirubin (Direct) | | | | | | | | | | Х | | | | | | |
| | Bilirubin (Total) | | | | | | | | | | Х | | | | | | |
| | Blood | | | | | | | | | | | | | | | | |
| | BNP | | | | Х | | | | | | | | | | | | |
| | Buprenorphine | | | | | | | | | | | | | | | | |
| С | CA15-3 | | | | | | | | | | | | | | Х | | |
| | CA19-9 | | | | | | | | | | | | | | Х | | |
| | CA125 | | | | | | | | | | | | | | Х | | |
| | Cadmium | | | | | | | | | | | | | | | | |
| | Caffeine | | | | | | | | | | | | | | | | |
| | Calcitonin | | | | | | | | | | | | | | | | Х |
| | Calcium | | | | | | | | | | Х | | | Х | | | |
| | Calcium (Ionised) | | | Х | | | | | | | Х | | | | | | |
| | Cannabinoids (THC) | | | | | | | | | | | | | | | | |
| | Carbamazepine | | | | | | | | | | | | | | Х | | |
| | CEA | | | | | | | | | | | | | | Х | | |
| | <u></u> | | | | | | | | | | | | | | | | |

| | | | | | cis) + | | | | | | + P | + <u>E</u> | е + | | | + = Not accredited | |
|---------------------|-------|----------------|--------------------|------------------|------------------------------|-----------------------|--------------------|-------------------|-----------------|------------------|---------------------------|---------------------------|---------------------------|--------------|--------------------|---|------|
| + | | | bo | | patit | + | + | | | | Bloo | Seru | Urin | | | | |
| Immunosuppressant + | | | Maternal Screening | + | Serology (HIV / Hepatitis) + | Serology (Syphilis) + | Serology (ToRCH) + | su | | rug | Trace Elements in Blood + | Trace Elements in Serum + | Trace Elements in Urine + | | Urine Toxicology + | | |
| ppre | | Liquid Cardiac | cree | Serology (EBV) + | | Syph | ToR(| Specific Proteins | Sweat Testing + | Therapeutic Drug | nent | nent | nent | + | colo | * = Pilot study ongoing | |
| Inso | | Car | al S | gy (I | gy (F | gy (§ | gy (| c Pr | Test | eut | Elem | Elem | Elem | /sis | Toxi | | |
| un W | Þig | pint | ıterr | rolo | rolog | rolo | rolo | ecifi | eat | erap | ace | ace | ace | Urinalysis + | ine | PURPLE = The only parameters available on RQ913 | 35/a |
| 트 | Lipid | Ĕ | Σ | Se | Se | Se | Se | Sp | Š | Ę | Ë | Ë | Ĕ | בֿ | בֿ | | |
| | | | | | | | Х | | | | | | | | | Anti-HSVI IgG | \ |
| | | | | | | | X | | | | | | | | | Anti-HSVI IgM | |
| | | | | | | | Х | | | | | | | | | Anti-HSV2 IgG | |
| | | | | | | | Х | | | | | | | | | Anti-HSV2 IgM | |
| | | | | | Х | | | | | | | | | | | Anti-HTLV-I & 2 Combined | |
| | | | | | Х | | | | | | | | | | | Anti-HTLV-I | |
| | | | | | Х | | | | | | | | | | | Anti-HTLV-II | |
| | | | | | | | Х | | | | | | | | | Anti-Rubella IgG | |
| | | | | | | | Х | | | | | | | | | Anti-Rubella IgM | |
| | | | | | | | | | | | | | | | | Anti-TG | |
| | | | | | | | | Х | | | | | | | | Antithrombin III | |
| | | | | | | | Х | | | | | | | | | Anti-Toxoplasma IgG | |
| | | | | | | | Х | | | | | | | | | Anti-Toxoplasma IgM | |
| | | | | | | | | | | | | | | | | Anti-TPO | |
| | | | | | | | | | | | | | | | | Anti-TSH Receptor (TRAb) | |
| | X | | | | | | | | | | | | | | | Apolipoprotein Al | |
| | X | | | | | | | | | | | | | | | Apolipoprotein B | |
| | | | | | | | | | | | | | | | | аРТТ | |
| | | | | | | | | | | | | | | | | AST (ASAT) | |
| | | | | | | | | Х | | | | | | | | β-2-Microglobulin | 3 |
| | | | | | | | | | | | | | | | | β-Globulin (Electrophoresis) | |
| | | | | | | | | | | | | | | | X | Benzoylecgonine | |
| | | | | | | | | | | | | | | | | Bicarbonate | |
| | | | | | | | | | | | | | | | | Bile Acids | |
| | | | | | | | | | | | | | | | | Bilirubin (Direct) | |
| | | | | | | | | | | | | | | X | | Bilirubin (Total) | |
| | | | | | | | | | | | | | | Х | | Blood | |
| | | | | | | | | | | | | | | | | BNP | |
| | | | | | | | | | | | | | | | Х | Buprenorphine | |
| | | | | | | | | | | | | | | | | CA15-3 | ; |
| | | | | | | | | | | | | | | | | CA19-9 | |
| | | | | | | | | | | | | | | | | CA125 | |
| | | | | | | | | | | | | | Х | | | Cadmium | |
| | | | | | | | | | | Х | | | | | | Caffeine | |
| | | | | | | | | | | | | | | | | Calcitonin | |
| | | | | | | | | | | | | | | | | Calcium | |
| | | | | | | | | | | | | | | | | Calcium (Ionised) | |
| | | | | | | | | | | | | | | | Х | Cannabinoids (THC) | |
| | | | | | | | | | | Х | | | | | | Carbamazepine | |
| | | | | | | | | | | | | | | | | CEA | |

| + = No | accredited | + 0 | or + | | | | + Pii | | | | Chemistry | | | | | ciality 1 + | ciality 2 + |
|----------|--|---------------------|---------------------|-----------|-------|---------|-----------------------|-------------|------------|-------|----------------------------|-------|-------------|-------------|-------------|----------------------------|--------------------------|
| * = Pilo | study ongoing | Ammonia / Ethanol + | Anti-TSH Receptor + | Sas | | | Cerebrospinal Fluid + | ation | 21-1 + | | General Clinical Chemistry | | tology | Urine | oassay | Immunoassay Speciality + | Immunoassay Speciality 2 |
| PURPLE | =The only parameters available on RQ9135/a | Ammon | Anti-TS | Blood Gas | BNP + | Cardiac | Cerebro | Coagulation | CYFRA 21-1 | ESR + | Genera | HbAlc | Haematology | Human Urine | Immunoassay | Immunc | Immuno |
| С | Ceruloplasmin | | | | | | | | | | | | | | | | |
| | Chloride | | | X | | | Х | | | | Х | | | Х | | | |
| | Cholesterol (Total) | | | | | | | | | | Х | | | | | | |
| | Cholinesterase | | | | | | | | | | Х | | | | | | |
| | Chromium | | | | | | | | | | | | | | | | |
| | CK, Total | | | | | X | | | | | Х | | | | | | |
| | CK-MB (Activity) | | | | | Х | | | | | | | | | | | |
| | CK-MB (Mass) | | | | | Х | | | | | | | | | | | |
| | Cobalt | | | | | | | | | | | | | | | | |
| | Complement C ₃ | | | | | | | | | | | | | | | | |
| | Complement C ₄ | | | | | | | | | | | | | | | | |
| | Conductivity | | | | | | | | | | | | | | | | |
| | Copper | | | | | | | | | | Х | | | Х | | | |
| | Cortisol | | | | | | | | | | | | | Х | Х | | |
| | Cotinine* | | | | | | | | | | | | | | | | |
| | C-Peptide | | | | | | | | | | | | | | Х | Х | |
| | C-Reactive Protein (CRP) | | | | | | | | | | | | | | | | |
| | Creatinine | | | | | | | | | | Х | | | Х | | | |
| | Cyclosporine | | | | | | | | | | | | | | | | |
| | CYFRA 21-1 (Cytokeratin 19) | | | | | | | | Х | | | | | | | | |
| D | D-3-Hydroxybutyrate | | | | | | | | | | Х | | | | | | |
| | d-Amphetamine | | | | | | | | | | | | | | | | |
| | D-Dimer* ^Δ | | | | | | | Х | | | | | | | | | |
| | DHEA Unconjugated | | | | | | | | | | | | | | Х | | |
| | DHEA-Sulphate | | | | | | | | | | | | | | Χ | | |
| | Digoxin | | | | | | | | | | | | | | Х | | |
| | d-Methamphetamine | | | | | | | | | | | | | | | | |
| | Dopamine | | | | | | | | | | | | | Х | | | |
| E | EDDP | | | | | | | | | | | | | | | | |
| | Epinephrine | | | | | | | | | | | | | Х | | | |
| | ESR | | | | | | | | | Х | | | | | | | |
| | Estriol Total* | | | | | | | | | | | | | | Х | | |
| | Ethanol | Х | | | | | | | | | | | | | | | |
| | Ethosuximide* ¹ | | | | | | | | | | | | | | Х | | |
| | Everolimus | | | | | | | | | | | | | | | | |
| F | Factor II | | | | | | | Х | | | | | | | | | |
| | Factor IX | | | | | | | Х | | | | | | | | | |
| | Factor V | | | | | | | Х | | | | | | | | | |
| | Factor VII | | | | | | | Х | | | | | | | | | |
| | Factor VIII | | | | | | | X | | | | | | | | | |

| Immunosuppressant + | Lipid | Liquid Cardiac | Maternal Screening | Serology (EBV) + | Serology (HIV / Hepatitis) + | Serology (Syphilis) + | Serology (ToRCH) + | Specific Proteins | Sweat Testing + | Therapeutic Drug | Trace Elements in Blood + | Trace Elements in Serum + | Trace Elements in Urine + | Urinalysis + | Urine Toxicology + | + = Not accredited * = Pilot study ongoing PURPLE = The only parameters available on RC | Q9135/a |
|---------------------|-------|----------------|--------------------|------------------|------------------------------|-----------------------|--------------------|-------------------|-----------------|------------------|---------------------------|---------------------------|---------------------------|--------------|--------------------|---|---------|
| | | | | | | | | Х | | | | | | | | Ceruloplasmin | С |
| | | | | | | | | | X | | | | | | | Chloride | |
| | х | | | | | | | | | | | | | | | Cholesterol (Total) | |
| | | | | | | | | | | | | | | | | Cholinesterase | |
| | | | | | | | | | | | | Х | Х | | | Chromium | |
| | | | | | | | | | | | | | | | | CK, Total | |
| | | | | | | | | | | | | | | | | CK-MB (Activity) | |
| | | Х | | | | | | | | | | | | | | CK-MB (Mass) | |
| | | | | | | | | | | | | X | Х | | | Cobalt | |
| | | | | | | | | X | | | | | | | | Complement C ₃ | |
| | | | | | | | | X | | | | | | | | Complement C ₄ | |
| | | | | | | | | | Х | | | | | | | Conductivity | |
| | | | | | | | | | | | X | Х | Х | | | Copper | |
| | | | | | | | | | | | | | | | | Cortisol | |
| | | | | | | | | | | | | | | | X | Cotinine* | |
| | | | | | | | | | | | | | | | | C-Peptide | |
| | | | | | | | | Х | | | | | | | | C-Reactive Protein (CRP) | |
| | | | | | | | | | | | | | | Х | X | Creatinine | |
| × | | | | | | | | | | Χ | | | | | | Cyclosporine | |
| | | | | | | | | | | | | | | | | CYFRA 21-1 (Cytokeratin 19) | |
| | | | | | | | | | | | | | | | | D-3-Hydroxybutyrate | D |
| | | | | | | | | | | | | | | | X | d-Amphetamine | |
| | | Х | | | | | | | | | | | | | | D-Dimer* ^Δ | |
| | | | | | | | | | | | | | | | | DHEA Unconjugated | |
| | | | | | | | | | | | | | | | | DHEA-Sulphate | |
| | | Х | | | | | | | | Χ | | | | | | Digoxin | |
| | | | | | | | | | | | | | | | X | d-Methamphetamine | |
| | | | | | | | | | | | | | | | | Dopamine | |
| | | | | | | | | | | | | | | | X | EDDP | E |
| | | | | | | | | | | | | | | | | Epinephrine | |
| | | | | | | | | | | | | | | | | ESR | |
| | | | | | | | | | | | | | | | | Estriol Total* | |
| | | | | | | | | | | | | | | | X | Ethanol | |
| | | | | | | | | | | Х | | | | | | Ethosuximide* ^Δ | |
| X | | | | | | | | | | | | | | | | Everolimus | |
| | | | | | | | | | | | | | | | | Factor II | F |
| | | | | | | | | | | | | | | | | Factor IX | |
| | | | | | | | | | | | | | | | | Factor V | |
| | | | | | | | | | | | | | | | | Factor VII | |
| | | | | | | | | | | | | | | | | Factor VIII | |

| # = Pilot study ongoing # Pumuouia / Ethanol P | eciality 2 |
|--|--------------------------|
| Factor X X Factor XII X Ferritin X Fibrinogen X Folate X Free Morphine X free β-hCG X Fructosamine X FSH X G γ-GT | Immunoassay Speciality 2 |
| Factor XI X X Factor XII X X Ferritin X X Fibrinogen X X Folate X X Free Morphine X X free β-hCG X X Fructosamine X X FSH X X | Immur |
| Factor XII X Image: Control of the | |
| Ferritin X Fibrinogen X Folate X Free Morphine X free β-hCG X Fructosamine X FSH X G γ-GT | |
| Fibrinogen X Folate X Free Morphine X free β-hCG X Fructosamine X FSH X G γ-GT | |
| Folate X Free Morphine C free β-hCG C Fructosamine X FSH X G γ-GT | |
| Free Morphine (πεθ β-hCG) Fructosamine (χ) FSH (χ) G γ-GT | |
| free β-hCG X Fructosamine X FSH X G γ-GT | |
| Fructosamine X FSH X G γ-GT | |
| FSH X G γ-GT | |
| G Y-GT X | |
| | |
| γ-Globulin (Electrophoresis) | |
| | |
| Galactose Galactose | |
| Gastrin Gastri | Х |
| Gentamicin X | |
| Growth Hormone (GH) | |
| GLDH X | |
| Glucose X X X X | |
| H Haematocrit (HCT) | |
| Haemoglobin (Hb) | |
| Haptoglobin Haptoglobin | |
| HbA1c X | |
| HBsAG | |
| HBDH X X X X X X X X X X X X X X X X X X X | |
| hCG X | |
| HDL-Cholesterol X | |
| Homocysteine X | |
| hsCRP | |
| I IgA | |
| IgE X | |
| IGF-I X | |
| IgG X | |
| IgM | |
| Inhibin A | |
| Insulin X X | |
| lodine | |
| Iron X | |
| K Kappa Light Chain (Free) | |
| Kappa Light Chain (Total) | |
| Ketones Company of the Company of th | |

| Immunosuppressant + | Lipid | Liquid Cardiac | Maternal Screening | Serology (EBV) + | Serology (HIV / Hepatitis) + | Serology (Syphilis) + | Serology (ToRCH) + | Specific Proteins | Sweat Testing + | Therapeutic Drug | Trace Elements in Blood + | Trace Elements in Serum + | Trace Elements in Urine + | Urinalysis + | Urine Toxicology + | + = Not accredited * = Pilot study ongoing PURPLE = The only parameters available on R | Q9135/a |
|---------------------|----------|----------------|--------------------|------------------|------------------------------|-----------------------|--------------------|-------------------|-----------------|------------------|---------------------------|---------------------------|---------------------------|--------------|--------------------|--|---------|
| ≐ | <u> </u> | ڌ | Σ | Š | Š | Š | Š | ς | Š | F | Ĕ | È | Ě | ō | ō | | |
| | | | | | | | | | | | | | | | | Factor X | F |
| | | | | | | | | | | | | | | | | Factor XI | |
| | | | | | | | | | | | | | | | | Factor XII | |
| | | | | | | | | Х | | | | | | | | Ferritin | |
| | | | | | | | | | | | | | | | | Fibrinogen | |
| | | | | | | | | | | | | | | | | Folate | |
| | | | | | | | | | | | | | | | Х | Free Morphine | |
| | | | Х | | | | | | | | | | | | | free β-hCG | |
| | | | | | | | | | | | | | | | | Fructosamine | |
| | | | | | | | | | | | | | | | | FSH | |
| | | | | | | | | | | | | | | | | γ-GT | G |
| | | | | | | | | | | | | | | | | γ-Globulin (Electrophoresis) | |
| | | | | | | | | | | | | | | Х | | Galactose | |
| | | | | | | | | | | | | | | | | Gastrin | |
| | | | | | | | | | | Х | | | | | | Gentamicin | |
| | | | | | | | | | | | | | | | | Growth Hormone (GH) | |
| | | | | | | | | | | | | | | | | GLDH | |
| | | | | | | | | | | | | | | Χ | | Glucose | |
| | | | | | | | | | | | | | | | | Haematocrit (HCT) | н |
| | | | | | | | | | | | | | | | | Haemoglobin (Hb) | |
| | | | | | | | | Х | | | | | | | | Haptoglobin | |
| | | | | | | | | | | | | | | | | HbAlc | |
| | | | | | Х | | | | | | | | | | | HBsAG | |
| | | | | | | | | | | | | | | | | HBDH | |
| | | | | | | | | | | | | | | X | | hCG | |
| | Х | | | | | | | | | | | | | | | HDL-Cholesterol | |
| | | X | | | | | | | | | | | | | | Homocysteine | |
| | | Х | | | | | | | | | | | | | | hsCRP | |
| | | | | | | | | Х | | | | | | | | lgA | 1 |
| | | | | | | | | Х | | | | | | | | IgE | |
| | | | | | | | | | | | | | | | | IGF-I | |
| | | | | | | | | Х | | | | | | | | IgG | |
| | | | | | | | | Х | | | | | | | | IgM | |
| | | | Х | | | | | | | | | | | | | Inhibin A | |
| | | | | | | | | | | | | | | | | Insulin | |
| | | | | | | | | | | | Х | X | Х | | | lodine | |
| | | | | | | | | | | | | | | | | Iron | |
| | | | | | | | | Х | | | | | | | | Kappa Light Chain (Free) | K |
| | | | | | | | | Х | | | | | | | | Kappa Light Chain (Total) | |
| | | | | | | | | | | | | | | Χ | | Ketones | |

| + = No | t accredited | + | + + | | | | + P! | | | | hemistry | | | | | ciality + | ciality 2 + |
|---------------|---|---------------------|---------------------|-----------|-------|---------|-----------------------|-------------|------------|-------|----------------------------|-------|-------------|-------------|-------------|----------------------------|--------------------------|
| * = Pilo | t study ongoing | Ammonia / Ethanol + | Anti-TSH Receptor + | Gas | | | Cerebrospinal Fluid + | ation | , 21-1 + | | General Clinical Chemistry | | tology | Human Urine | oassay | Immunoassay Speciality + | Immunoassay Speciality 2 |
| PURPLE | = The only parameters available on RQ9135/a | Ammo | Anti-T§ | Blood Gas | BNP + | Cardiac | Cerebr | Coagulation | CYFRA 21-1 | ESR + | Genera | HbAlc | Haematology | Human | Immunoassay | Immun | Immun |
| L | Lactate | | | Х | | | Х | | | | Х | | | | | | |
| | Lambda Light Chain (Free) | | | | | | | | | | | | | | | | |
| | Lambda Light Chain (Total) | | | | | | | | | | | | | | | | |
| | LD (LDH) | | | | | | | | | | Х | | | | | | |
| | LDL-Cholesterol | | | | | | | | | | | | | | | | |
| | Lead | | | | | | | | | | | | | | | | |
| | Leukocytes | | | | | | | | | | | | | | | | |
| | Leutinising Hormone (LH) | | | | | | | | | | | | | | X | | |
| | Lipase | | | | | | | | | | Х | | | | | | |
| | Lipoprotein (a) | | | | | | | | | | | | | | | | |
| | Lithium | | | | | | | | | | Х | | | | | | |
| | Lorazepam | | | | | | | | | | | | | | | | |
| | LSD | | | | | | | | | | | | | | | | |
| М | Magnesium | | | | | | | | | | Х | | | | | | |
| | Manganese | | | | | | | | | | | | | | | | |
| | MDMA | | | | | | | | | | | | | | | | |
| | Mean Cell Haemoglobin (MCH) | | | | | | | | | | | | Х | | | | |
| | Mean Cell Haemoglobin Concentration (MCHC) | | | | | | | | | | | | Х | | | | |
| | Mean Cell Volume (MCV) | | | | | | | | | | | | Х | | | | |
| | Mean Platelet Volume (MPV) | | | | | | | | | | | | Х | | | | |
| | Metanephrine | | | | | | | | | | | | | X | | | |
| | Methadone | | | | | | | | | | | | | | | | |
| | Methotrexate | | | | | | | | | | | | | | | | |
| | Molybdenum | | | | | | | | | | | | | | | | |
| | Myoglobin | | | | | Х | | | | | | | | | | | |
| N | NEFA | | | | | | | | | | Х | | | | | | |
| | Nickel | | | | | | | | | | | | | | | | |
| | Nitrite | | | | | | | | | | | | | | | | |
| | Norepinephrine | | | | | | | | | | | | | X | | | |
| | Normetanephrine | | | | | | | | | | | | | X | | | |
| | Norpropoxyphene | | | | | | | | | | | | | | | | |
| | Nortriptyline | | | | | | | | | | | | | | | | |
| | NT proBNP | | | | | | | | | | | | | | | | |
| 0 | Oestradiol | | | | | | | | | | | | | | X | | |
| | Osmolality | | | | | | | | | | Х | | | Х | | | |
| | Osteocalcin | | | | | | | | | | | | | | | Х | |
| | Oxalate | | | | | | | | | | | | | Х | | | |
| | Oxazepam | | | | | | | | | | | | | | | | |
| Р | PAPP-A | | | | | | | | | | | | | | | | |

| Immunosuppressant + | Lipid | Liquid Cardiac | Maternal Screening | Serology (EBV) + | Serology (HIV / Hepatitis) + | Serology (Syphilis) + | Serology (ToRCH) + | Specific Proteins | Sweat Testing + | Therapeutic Drug | Trace Elements in Blood + | Trace Elements in Serum + | Trace Elements in Urine + | Urinalysis + | Urine Toxicology + | + = Not accredited * = Pilot study ongoing PURPLE = The only parameters available on RQ9135/a |
|---------------------|-------|----------------|--------------------|------------------|------------------------------|-----------------------|--------------------|-------------------|-----------------|------------------|---------------------------|---------------------------|---------------------------|--------------|--------------------|---|
| = | | | Σ | Ň | Ň | Ň | Ň | N. | Ń | - | F | F | F |) |) | |
| | | | | | | | | | | | | | | | | Lactate |
| | | | | | | | | X | | | | | | | | Lambda Light Chain (Free) |
| | | | | | | | | X | | | | | | | | Lambda Light Chain (Total) |
| | | | | | | | | | | | | | | | | LD (LDH) |
| | X | | | | | | | | | | | | | | | LDL-Cholesterol |
| | | | | | | | | | | | X | X | Х | | | Lead |
| | | | | | | | | | | | | | | Х | | Leukocytes |
| | | | | | | | | | | | | | | | | Leutinising Hormone (LH) |
| | | | | | | | | | | | | | | | | Lipase |
| | X | | | | | | | | | | | | | | | Lipoprotein (a) |
| | | | | | | | | | | Х | | | | | | Lithium |
| | | | | | | | | | | | | | | | X | Lorazepam |
| | | | | | | | | | | | | | | | X | LSD |
| | | | | | | | | | | | Х | | Х | | | Magnesium |
| | | | | | | | | | | | Х | Х | X | | | Manganese |
| | | | | | | | | | | | | | | | Х | MDMA |
| | | | | | | | | | | | | | | | | Mean Cell Haemoglobin (MCH) |
| | | | | | | | | | | | | | | | | Mean Cell Haemoglobin Concentration (MCHC) |
| | | | | | | | | | | | | | | | | Mean Cell Volume (MCV) |
| | | | | | | | | | | | | | | | | Mean Platelet Volume (MPV) |
| | | | | | | | | | | | | | | | | Metanephrine |
| | | | | | | | | | | | | | | | X | Methadone |
| | | | | | | | | | | X | | | | | | Methotrexate |
| | | | | | | | | | | | | | X | | | Molybdenum |
| | | Х | | | | | | | | | | | | | | Myoglobin |
| | | | | | | | | | | | | | | | | NEFA N |
| | | | | | | | | | | | | Х | Х | | | Nickel |
| | | | | | | | | | | | | | | Х | | Nitrite |
| | | | | | | | | | | | | | | | | Norepinephrine |
| | | | | | | | | | | | | | | | | Normetanephrine |
| | | | | | | | | | | | | | | | Х | Norpropoxyphene |
| | | | | | | | | | | | | | | | Х | Nortriptyline |
| | | Х | | | | | | | | | | | | | | NT proBNP |
| | | | | | | | | | | | | | | | | Oestradiol O |
| | | | | | | | | | | | | | | | | Osmolality |
| | | | | | | | | | | | | | | | | Osteocalcin |
| | | | | | | | | | | | | | | | | Oxalate |
| | | | | | | | | | | | | | | | Х | Oxazepam |
| | | | Х | | | | | | | | | | | | | PAPP-A P |

| + = Not | accredited | + 01 | or + | | | | + pin | | | | Chemistry | | | | | Immunoassay Speciality I + | eciality 2 + |
|----------------|---|---------------------|---------------------|-----------|------|---------|-----------------------|-------------|--------------|-------|----------------------------|-------|-------------|-------------|-------------|----------------------------|--------------------------|
| * = Pilot | study ongoing | Ammonia / Ethanol + | Anti-TSH Receptor + | Gas | | j. | Cerebrospinal Fluid + | lation | CYFRA 21-1 + | | General Clinical Chemistry | | Haematology | Human Urine | Immunoassay | oassay Sp | Immunoassay Speciality 2 |
| PURPLE | = The only parameters available on RQ9135/a | Ammo | Anti-T | Blood Gas | BNP+ | Cardiac | Cerebi | Coagulation | CYFR/ | ESR + | Gener | HbAlc | Haema | Humar | Immur | Immur | Immur |
| Р | PAPP-A | | | | | | | | | | | | | | | | |
| | Paracetamol (Acetaminophen) | | | | | | | | | | | | | | Х | | |
| | pCO ₂ | | | Х | | | | | | | | | | | | | |
| | рН | | | Х | | | | | | | | | | | | | |
| | Phencyclidine | | | | | | | | | | | | | | | | |
| | Phenobarbital | | | | | | | | | | | | | | Х | | |
| | Phenytoin | | | | | | | | | | | | | | Х | | |
| | Phosphate (Inorganic) | | | | | | | | | | Χ | | | Χ | | | |
| | Plasma Renin Activity | | | | | | | | | | | | | | | | Х |
| | Plasminogen | | | | | | | Х | | | | | | | | | |
| | Plateletcrit (PCT) | | | | | | | | | | | | Х | | | | |
| | Platelets (PLT) | | | | | | | | | | | | Χ | | | | |
| | pO ₂ | | | Х | | | | | | | | | | | | | |
| | Potassium | | | Х | | | | | | | Х | | | Х | | | |
| | Prealbumin (Transthyretin) | | | | | | | | | | | | | | | | |
| | Primidone* | | | | | | | | | | | | | | Х | | |
| | Procalcitonin | | | | | | | | | | | | | | | X | X |
| | Progesterone | | | | | | | | | | | | | | Х | | |
| | Prolactin | | | | | | | | | | | | | | Х | | |
| | Protein (Total) | | | | | | Х | | | | Х | | | Х | | | |
| | Protein C | | | | | | | X | | | | | | | | | |
| | Protein S | | | | | | | Χ | | | | | | | | | |
| | PSA (Free) | | | | | | | | | | | | | | Χ | | |
| | PSA (Total) | | | | | | | | | | Х | | | | Х | | |
| | PT (Including INR) | | | | | | | Х | | | | | | | | | |
| | РТН | | | | | | | | | | | | | | Х | Х | |
| R | Red Blood Bell Count (RBC) | | | | | | | | | | | | Х | | | | |
| | Red Cell Distribution Width (RDW) | | | | | | | | | | | | Х | | | | |
| | Renin (Direct Concentration) | | | | | | | | | | | | | | | | Х |
| | Retinol Binding Protein | | | | | | | | | | | | | | | | |
| | Rheumatoid Factor | | | | | | | | | | | | | | | | |
| S | Salicylic Acid | | | | | | | | | | | | | | Х | | |
| | Secobarbital | | | | | | | | | | | | | | | | |
| | Selenium | | | | | | | | | | | | | | | | |
| | SHBG | | | | | | | | | | | | | | Х | | |
| | Sirolimus | | | | | | | | | | | | | | | | |
| | Sodium | | | X | | | Х | | | | Х | | | Х | | | |
| | Specific Gravity | | | | | | | | | | | | | | | | |
| | Syphilis | | | | | | | | | | | | | | | | |
| Т | T ₃ (Free) | | | | | | | | | | X | | | | X | | |

| + | | | | | atitis) + | | | | | | + pool | erum + | rine + | | | + = Not accredited |
|---------------------|-------|----------------|--------------------|------------------|------------------------------|-----------------------|--------------------|-------------------|-----------------|------------------|---------------------------|---------------------------|---------------------------|--------------|--------------------|--|
| Immunosuppressant + | | ardiac | Maternal Screening | (EBV) + | Serology (HIV / Hepatitis) + | Serology (Syphilis) + | Serology (ToRCH) + | roteins | sting + | Therapeutic Drug | Trace Elements in Blood + | Trace Elements in Serum + | Trace Elements in Urine + | + s | Urine Toxicology + | * = Pilot study ongoing |
| Immunos | Lipid | Liquid Cardiac | | Serology (EBV) + | Serology | Serology | Serology | Specific Proteins | Sweat Testing + | Therape | Trace Ele | Trace Ele | Trace Ele | Urinalysis + | Urine To | PURPLE = The only parameters available on RQ9135/a |
| | | | Х | | | | | | | | | | | | | PAPP-A P |
| | | | | | | | | | | X | | | | | | Paracetamol (Acetaminophen) |
| | | | | | | | | | | | | | | V | | pCO ₂ |
| | | | | | | | | | | | | | | X | ~ | pH |
| | | | | | | | | | | Х | | | | | X | Phencyclidine Phenobarbital |
| | | | | | | | | | | X | | | | | ^ | Phenytoin |
| | | | | | | | | | | ^ | | | | | | Phosphate (Inorganic) |
| | | | | | | | | | | | | | | | | Plasma Renin Activity |
| | | | | | | | | | | | | | | | | Plasminogen |
| | | | | | | | | | | | | | | | | Plateletcrit (PCT) |
| | | | | | | | | | | | | | | | | Platelets (PLT) |
| | | | | | | | | | | | | | | | | pO, |
| | | | | | | | | | | | | | | | | Potassium |
| | | | | | | | | Х | | | | | | | | Prealbumin (Transthyretin) |
| | | | | | | | | | | Х | | | | | | Primidone* |
| | | | | | | | | | | | | | | | | Procalcitonin |
| | | | | | | | | | | | | | | | | Progesterone |
| | | | | | | | | | | | | | | | | Prolactin |
| | | | | | | | | | | | | | | Х | | Protein (Total) |
| | | | | | | | | | | | | | | | | Protein C |
| | | | | | | | | | | | | | | | | Protein S |
| | | | | | | | | | | | | | | | | PSA (Free) |
| | | | | | | | | | | | | | | | | PSA (Total) |
| | | | | | | | | | | | | | | | | PT (Including INR) |
| | | | | | | | | | | | | | | | | PTH |
| | | | | | | | | | | | | | | | | Red Blood Bell Count (RBC) |
| | | | | | | | | | | | | | | | | Red Cell Distribution Width (RDW) |
| | | | | | | | | | | | | | | | | Renin (Direct Concentration) |
| | | | | | | | | Х | | | | | | | | Retinol Binding Protein |
| | | | | | | | | Х | | | | | | | | Rheumatoid Factor |
| | | | | | | | | | | Х | | | | | | Salicylic Acid S |
| | | | | | | | | | | | | | | | Х | Secobarbital |
| | | | | | | | | | | | Х | X | | | | Selenium |
| | | | | | | | | | | | | | | | | SHBG |
| X | | | | | | | | | | | | | | | | Sirolimus |
| | | | | | | | | | X | | | | | | | Sodium |
| | | | | | | | | | | | | | | X | | Specific Gravity |
| | | | | | | Х | | | | | | | | | | Syphilis |
| | | | | | | | | | | | | | | | | T ₃ (Free) |

| + = No | + - | or + | | | | + P <u>!</u> | | | | hemistry | | | | | ciality + | ciality 2 + | |
|--|------------------------------------|---------------------|-------------------|-----------|----------|--------------|-----------------------|-------------|--------------|----------|----------------------------|-------|-------------|-------------|-------------|----------------------------|----------------------------|
| * = Pilot study ongoing | | | Anti-TSH Receptor | Gas | | | Cerebrospinal Fluid + | ation | CYFRA 21-1 + | | General Clinical Chemistry | | tology | Urine | oassay | Immunoassay Speciality + | Immunoassay Speciality 2 + |
| PURPLE = The only parameters available on RQ9135/a | | Ammonia / Ethanol + | Anti-TS | Blood Gas | BNP + | Cardiac | Cerebro | Coagulation | CYFRA | ESR + | Genera | HbAlc | Haematology | Human Urine | Immunoassay | lmmune | lmmune |
| Т | T ₃ (Total) | | | | | | | | | | Х | | | | Х | | |
| | T ₄ (Free) | | | | | | | | | | Х | | | | Х | | |
| | T ₄ (Total) | | | | | | | | | | Х | | | | Х | | |
| | Tacrolimus | | | | | | | | | | | | | | | | |
| | Testosterone (Free)* | | | | | | | | | | | | | | Х | | |
| | Testosterone (Total) | | | | | | | | | | | | | | Х | | |
| | Thallium | | | | | | | | | | | | | | | | |
| | Theophylline | | | | | | | | | | | | | | Χ | | |
| | Thyroglobulin | | | | | | | | | | | | | | Х | | |
| | TIBC | | | | | | | | | | Х | | | | | | |
| | Tobramycin* | | | | | | | | | | | | | | Х | | |
| | Total hCG | | | | | | | | | | | | | | | | |
| | Total White Blood Cell Count (WBC) | | | | | | | | | | | | Х | | | | |
| | Transferrin | | | | | | | | | | | | | | | | |
| | Triglycerides | | | | | | | | | | Х | | | | | | |
| | Troponin I | | | | | Х | | | | | | | | | | | |
| | Troponin T | | | | | Х | | | | | | | | | | | |
| | TSH | | | | | | | | | | | | | | Х | | |
| | тт | | | | | | | Х | | | | | | | | | |
| U | UIBC | | | | | | | | | | Х | | | | | | |
| | Unconjugated Oestriol | | | | | | | | | | | | | | | | |
| | Urea | | | | | | | | | | Х | | | Х | | | |
| | Uric Acid | | | | | | | | | | Х | | | Х | | | |
| | Urobilinogen | | | | | | | | | | | | | | | | |
| ٧ | Valproic Acid | | | | | | | | | | | | | | Х | | |
| | Vancomycin | | | | | | | | | | | | | | Х | | |
| | Vitamin B12 | | | | | | | | | | | | | | Х | | |
| | VMA | | | | | | | | | | | | | Х | | | |
| Z | Zinc | | | | | | | | | | Х | | | | | | |

| Immunosuppressant + | | Liquid Cardiac | Maternal Screening | Serology (EBV) + | Serology (HIV / Hepatitis) + | Serology (Syphilis) + | Serology (ToRCH) + | Specific Proteins | Sweat Testing + | Therapeutic Drug | Trace Elements in Blood + | Trace Elements in Serum + | Trace Elements in Urine + | Urinalysis + | Urine Toxicology + | + = Not accredited * = Pilot study ongoing |
|---------------------|-------|----------------|--------------------|------------------|------------------------------|-----------------------|--------------------|-------------------|-----------------|------------------|---------------------------|---------------------------|---------------------------|--------------|--------------------|---|
| lmm m | Lipid | Liqui | Mate | Sero | Sero | Sero | Sero | Spec | Swea | Ther | Trac | Trac | Trac | Orin | Urin | PURPLE = The only parameters available on RQ9135/ |
| | | | | | | | | | | | | | | | | T ₃ (Total) |
| | | | | | | | | | | | | | | | | T ₄ (Free) |
| | | | | | | | | | | | | | | | | T ₄ (Total) |
| X | | | | | | | | | | | | | | | | Tacrolimus |
| | | | | | | | | | | | | | | | | Testosterone (Free)* |
| | | | | | | | | | | | | | | | | Testosterone (Total) |
| | | | | | | | | | | | | | Х | | | Thallium |
| | | | | | | | | | | Х | | | | | | Theophylline |
| | | | | | | | | | | | | | | | | Thyroglobulin |
| | | | | | | | | | | | | | | | | TIBC |
| | | | | | | | | | | X | | | | | | Tobramycin* |
| | | | Х | | | | | | | | | | | | | Total hCG |
| | | | | | | | | | | | | | | | | Total White Blood Cell Count (WBC) |
| | | | | | | | | X | | | | | | | | Transferrin |
| | Х | | | | | | | | | | | | | | | Triglycerides |
| | | Х | | | | | | | | | | | | | | Troponin I |
| | | X | | | | | | | | | | | | | | Troponin T |
| | | | | | | | | | | | | | | | | TSH |
| | | | | | | | | | | | | | | | | тт |
| | | | | | | | | | | | | | | | | UIBC |
| | | | Х | | | | | | | | | | | | | Unconjugated Oestriol |
| | | | | | | | | | | | | | | | | Urea |
| | | | | | | | | | | | | | | | | Uric Acid |
| | | | | | | | | | | | | | | Х | | Urobilinogen |
| | | | | | | | | | | X | | | | | | Valproic Acid V |
| | | | | | | | | | | X | | | | | | Vancomycin |
| | | | | | | | | | | | | | | | | Vitamin B12 |
| | | | | | | | | | | | | | | | | VMA |
| | | | | | | | | | | | Х | X | | | | Zinc |

RELATED PRODUCTS

ACUSERA True third party quality controls

As a world leading manufacturer of multi-analyte true third party controls, thousands of laboratories rely on Randox to accurately assess test system performance and ultimately empower them with the confidence required to release patient test results. With more than 390 analytes available, the number of individual controls required to cover your test menu is significantly reduced while simultaneously reducing costs, time and storage space. A choice of formats is available, including liquid or lyophilised, which ensures flexibility and suitability for laboratories of all sizes and budgets. Many features of the Acusera range can help you to meet ISO 15189:2012 requirements:

- Designed to react to the test system in the same manner as a patient sample, helping to reduce inconvenient shifts in QC results when reagent batch is changed and ultimately providing a true indication of laboratory performance.
- The presence of analytes at key decision levels ensures accurate instrument performance and eliminates the need for additional low/high controls at extra expense.
- Manufactured independently from any instrument, the Acusera range delivers unbiased performance assessment with any instrument or method, while eliminating the need for multiple instrument specific controls.

Product Portfolio

Antioxidants | Blood Gas | Cardiac Markers | Routine Chemistry | Coagulation | Haematology | Diabetes | Immunoassay | Immunology | Lipids | POCT | Therapeutic Drugs | Toxicology | Urine Chemistry



Uniquely combining more than 100 analytes conveniently in a single control, laboratories can significantly reduce costs and consolidate without compromising on quality. As true third party controls, unbiased performance assessment with any instrument or method is guaranteed.

RELATED PRODUCTS

ACUSERA 24.7 Interlaboratory Data Management

Designed for use with the Acusera range of third party controls, the Acusera 24.7 software helps laboratories monitor and interpret their QC data. Access to an impressive range of features, including interactive charts, the automatic calculation of Measurement Uncertainty & Sigma Metrics and live peer group data generated from our extensive database of laboratory participants, ensures Acusera 24.7 is the most comprehensive package available.

- Advanced statistical analysis with automatic calculation of performance metrics including; Sigma, UM, TE & %Bias.
- Instantly discover how you compare to your peers with peer group statistics updated live in real-time reducing time and money spent troubleshooting.
- Interactive charts allowing you to add events and multiple data sets for quick and easy performance monitoring.
- Automated data import with bi-directional connection to LIMS (eliminating manual data entry).

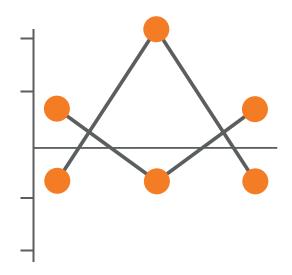
Software Features

Dashboard | Result History | Interactive Levey-Jennings Charts | Interactive Histogram Charts

Performance Summary Charts | Statistical Analysis Report | Statistical Metrics Report

Uncertainty of Measurement Report | Exception Report | Peer Group Statistics | Acusera Advisor

Audit Trail Report



'The laboratory shall have a procedure to prevent the release of patient results in the event of quality control failure. When the quality controls rules are violated and indicate that examination results are likely to contain significant errors the results shall be rejected... Quality Control data shall be reviewed at regular intervals to detect trends in examination performance'.

ISO 15189:2012

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The RX series combines robust hardware and intuitive software with the world leading RX series test menu, including routine chemistries, specific proteins, lipids, therapeutic drugs, drugs of abuse, antioxidants and diabetes testing. Renowned for quality and reliability, the RX series boasts one of the most extensive dedicated clinical chemistry test menus on the market guaranteeing real cost savings through consolidation of routine and specialised tests onto a single platform. This extensive dedicated test menu of high quality reagents guarantees excellence in patient care reducing costly test re-runs or misdiagnosis and offers unrivalled precision and accuracy for results you can trust.

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Randox offers an extensive range of diagnostic reagents, giving biochemistry laboratories the opportunity to advance their routine and niche testing. The Randox reagents range goes beyond routine chemistries. At Randox we re-invest significantly in research and development to ensure we meet the ever changing needs of the laboratory. As a result, the esoteric reagents range from Randox is extensive and includes sLDL, Lipoprotein(a), H-FABP, Cystatin C, TxBCardio, Adiponectin, Bile Acids, Copper, D-3- Hydroxybutyrate, G-6-PDH, Non-Esterified Fatty Acids, Total Antioxidant Status and Zinc. Randox Reagents provide a number of benefits for the laboratory: Cost savings through excellent stability, automated methods and standards supplied with some kits; confidence in results with high performance methods, minimal interferences and wide measuring ranges; convenience and choice with over applications for over 100 biochemistry analysers; liquid ready-to-use reagents, a wide range of kit sizes and complementary controls and calibrators.

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Biochip Array Technology (BAT) is an innovative assay technology for multi-analyte screening of biological samples in a rapid, accurate and easy to use format. BAT offers highly specific tests, coupled to highly sensitive chemiluminescent detection, providing quantitative results in easy to interpret reports. Randox BAT assays offer diagnostic, prognostic and predictive solutions across a variety of disease areas including sexually transmitted infection, cardiovascular disease (CVD), familial hypercholesterolemia (FH), colorectal cancer and respiratory infection.



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