



# IQC & EQA PROGRAMMES



Fortress  
Diagnostics



## Seraqual 365: IQC Management Software

The Seraqual 365 IQC Management Software is a peer data QC programme designed for use with Seraqual Controls. It provides a cost effective and comprehensive package for labs who need to manage their daily QC activities on a centralised platform in real time.



Simple, Easy to Use  
Peer Comparison  
Tool



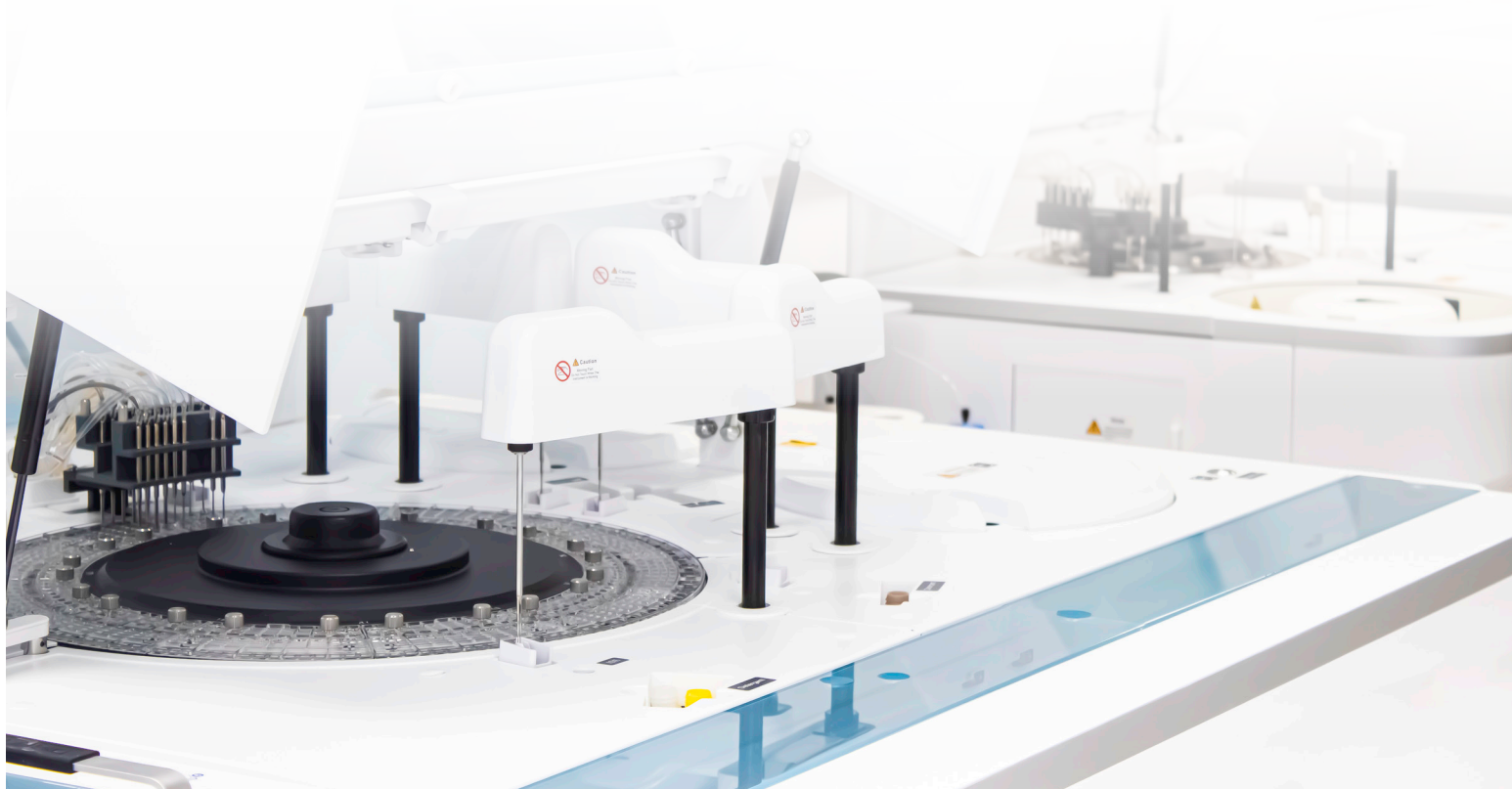
Real Time Data  
on a Centralised  
Platform



Cost Effective &  
Comprehensive QC Data Management  
Software

The system has a number of features to enhance data review and trouble shooting within a lab to include:

- **A dashboard interface** that presents a condensed panel of the features of the system showing options most frequented. It also flags any exceptions for review
- **A simple easy to use interface** that allow labs to configure and enter results easily with a need for minimal training
- **Interactive charts** for quick and easy performance review to including Histogram and Levey –Jennings
- **Exceptions reports** so data from a specified date range can be reviewed quickly
- **Statistical Comparison Report** can be specified by date range at the instrument, method or all method level.
- **Peer Group Statistics** allowing you to compare your results with other labs using the same QC material
- **Advanced Statistical Analysis** that includes performance indicators such as Uncertainty of Measurement (UM), Bias, Total Error (TE) and Sigma Scores.





## Ordering Information

Description	Cycle	Cat No.	Size
Seraqual 365 Internal Quality Assessment Programme	1 Cycle = 12 Months (1 Year License)	SERAQ00P	

## Software Overview

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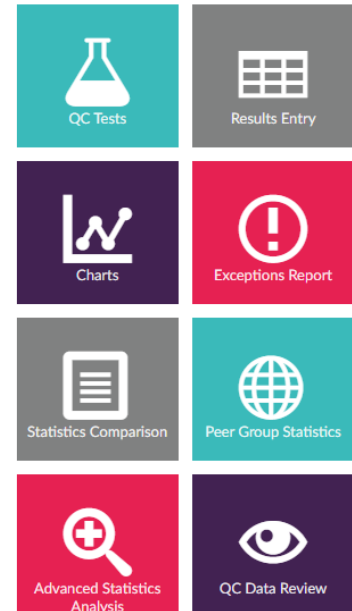
### Dashboard

Presents a condensed panel of the features of the system showing options most frequented.

A full list of features that the system offers is available from the drop down at the top left hand corner.

It also flags any exceptions for review to allow rapid identification of any QC problems and allow quick and effective corrective action.

### SERAQUAL 365 IQC Management Software



[Instructions for Use \(English Only\)](#)

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### QC Tests

Instrument ID	Cobas
Location	Chemistry Lab
Instrument Name	Roche Cobas c311
Control Type	Clinical Chemistry
Lots	HSN029 - HSE029

Show ☒ Current Assays ☐ All Assays Add Assay

Analyte	Method	Reagent Supplier	Unit	Temperature (°C)	Current?
Acid Phosphatase Prostatic	Naphthyl with Pentandiol	Roche Diagnostics	U/L	37	<input checked="" type="checkbox"/>
Bilirubin Direct	DCA	3P Bioservice S.R.L.	μmol/L	0	<input checked="" type="checkbox"/>
CK	CK-NAC	ABX Horiba	U/L	37	<input checked="" type="checkbox"/>

This option allows a lab to quickly see the instruments registered, the programmes and lots associated with these instruments and then the associated QC test.

Here a lab can also set the Target mean and SD of a test (cumulative, user defined or Seraqual 365 (targets available for selected assayed lots)).

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### Result Entry

A simple feature to allow easy manual addition of results.

An alarm is activated if a result entered violates a multi rule set.

There are also indicators to show when a result has been edited, commented upon or reviewed.

Assay: Acid Phosphatase Prostatic, Naphthyl with Pentandiol, Roche Diagnostics, U/L, 37°C ☒ Current?

Target Mean/SD

HSN029	
Mean	0.0000
SD	0.000

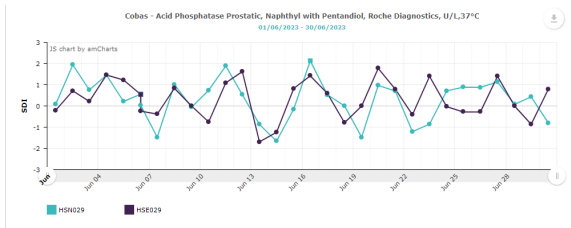
Your Statistics

HSN029	
Results	192
Mean	14.9812
SD	1.268
CV%	8.46
Bias%	0.00

1 Rule violation \* Edited record ^ Comment ✓ Reviewed Add Result

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### Charts



The Levey Jennings and Histograms interactive charts can be generated within a specific date range proving invaluable for identifying data shifts and trends.

The charts can be downloaded, saved, annotated and printed for the users convenience.



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### Exceptions Report

The Exceptions Report presents all results that have violated the multi rules set in a date range that can be specified.

Through colour coding it identifies the violated rules that are 'Alert' and those that are 'Reject'.

Any comments associated with a result are also detailed.

#### Exceptions Report

Cobas - Chemistry Lab - Roche Cobas c311

Acid Phosphatase Prostatic, Naphthyl with Pentandiol, Roche Diagnostics, U/L, 37°C

HSN029					HSE029		
DATE	TIME	OPERATOR	RESULT	SDI	RESULT	SDI	
06/06/2023	11:06:38	FD	15.4000 10x+	0.5583	36.4000 10x+	0.5382	

Bilirubin Direct, DCA, 3P Bioservice S.R.L., µmol/L

HSN029					HSE029		
DATE	TIME	OPERATOR	RESULT	SDI	RESULT	SDI	
07/06/2023	14:20:48	FD	8.2000 1.2s	2.0474	25.5000	1.8610	

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### Statistics Comparison Report

A worldwide and country comparison of statistics at either the Instrument, Method or All Method level is available in this report.

A date range can be specified.

This report includes performance indicators such as Mean, SD, CV%, Bias %, SDI and CVI.

#### Statistics Comparison Report

Comparison Level: Instrument

Blood Gas & Electrolytes, Chloride, Enzymatic, Roche Diagnostics, mmol/L														
LOT	INSTRUMENT	NO. OF RESULTS				MEAN				SD				CVI
		YTD	COUNTRY	WORLD	YTD	YTD	COUNTRY	WORLD	YTD	YTD	COUNTRY	WORLD	YTD	
100-01-008	Roche Cobas c311 - Chemistry Lab 2	109	109	109	14.186	14.186	0.03	0.03	0.03	4.42	4.42	4.42	N/A	N/A
100-02-008	Roche Cobas c311 - Chemistry Lab 2	109	109	109	72.023	72.023	1.15	1.15	1.15	1.08	1.08	1.08	N/A	N/A
100-03-008	Roche Cobas c311 - Chemistry Lab 2	109	109	109	220.267	220.267	3.41	3.41	3.41	1.48	1.48	1.48	N/A	N/A

Clinical Chemistry, Acid Phosphatase Prostatic, Naphthyl with Pentandiol, Roche Diagnostics, U/L, 37°C														
LOT	INSTRUMENT	NO. OF RESULTS				MEAN				SD				CVI
		YTD	COUNTRY	WORLD	YTD	YTD	COUNTRY	WORLD	YTD	YTD	COUNTRY	WORLD	YTD	
HSE029	Roche Cobas c311 - Chemistry Lab 2	162	243	243	35.218	35.230	2.64	2.64	2.64	7.68	7.68	-0.34	-0.34	0.00
	Roche Cobas c311 - Chemistry Lab 2	142	243	243	35.106	35.230	2.33	2.64	2.64	6.83	7.48	-0.35	-0.35	0.89
HSE029	Roche Cobas c311 - Chemistry Lab 2	162	243	243	14.981	15.171	1.27	1.62	1.62	8.46	10.89	-1.25	-1.25	0.79
	Roche Cobas c311 - Chemistry Lab 2	142	243	243	15.122	15.171	1.68	1.62	1.62	11.14	10.89	-0.32	-0.32	1.04



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## Peer Group Statistics

A lab can select World or Country Statistics for a chosen Control Type and Lot.

The peer group can be at a number of different levels as seen in the image.

The report includes Mean, SD, CV% and the number of labs.

The interface shows filters for 'Show Statistics For' (World, United Kingdom) and 'Peer Group' (Analyte, Analyte/Method, Analyte/Method/Instrument, Analyte/Method/Reagent Supplier, Analyte/Method/Instrument/Reagent Supplier). Below the filters is a table with columns: Peer Group, SI Unit, Results, Mean, SD, CV%, and No. Labs.

Peer Group	SI Unit	Results	Mean	SD	CV%	No. Labs
ALT / GPT	U/L	90	27.3941	1.079	3.94	2
Albumin	g/L	87	17.0878	17.252	100.96	3
Alkaline Phosphatase	U/L	100	146.7460	26.409	18.00	2

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## Advanced Statistics Report

This report draws on a number of important statistical metrics that include Mean, SD, CV%, Uncertainty of Measurement (UM), Bias, TE, Sigma (BV) and Sigma (CLIA).

The report can be based at either the Instrument, Method or All Method Level and if required within a specified date range.

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## QC Data Review

A lab selects a date range (instrument, lot and assay selection is optional) and the report generated displays any results that have not yet been reviewed.

Results violating a multirule are highlighted according to their 'Alert' or 'Reject' status.

A reviewer has the ability to set all the results to reviewed or individually look at results and comment.

This function allow quick and easy identification of tests that may be problematic.

## Additional Features



Programme available in English, Spanish, Chinese, Farsi and Arabic.



Co-ordinators have the ability to look at the Statistics Comparison Report and Advanced Statistical Analysis Report of the labs they are responsible for.



Instruction for Use available on the Software



Automatic deactivations of peer data to maintain the integrity of the data

For further information please contact [admin@seraqual365.com](mailto:admin@seraqual365.com)



## New Tutorial Videos for Seraqual 365

**First Steps to  
Configuration**

**First Steps to  
Results Entry**



**First Steps to  
Seraqual 365 Reports**

**First Steps to  
QC Data Review**

**Find out more:**

**[www.fortressdiagnostics.com/products/seraqual-365](http://www.fortressdiagnostics.com/products/seraqual-365)**





## SEQAS: EQA Management Software

SEQAS is an EQA scheme that forms part of the Fortress Quality Control Platform. EQA helps to assure customers, such as physicians, patients, and health authorities, that the laboratory can produce reliable results. Individual laboratories can use EQA to identify problems in laboratory practices, allowing for appropriate corrective action. EQA participation will help to evaluate reliability of methods, materials, and equipment, and to evaluate and monitor training impact.



For laboratories performing public health-related testing, EQA can help to assure that results from different laboratories during surveillance activities are comparable. EQA participation is usually required for accreditation. Samples received for EQA testing, as well as the information shared by the EQA provider, are useful for conducting educational and professional development activities.

Participation in an external quality assessment program provides valuable data and information for the laboratory which:

- allows peer comparison of performance and results among different test sites;
- provides early warning for systematic problems associated with kits or operations;
- provides objective evidence of testing quality;
- indicates areas that need improvement;
- identifies training needs.



A fast easy-to-use  
data capture system



Data analysis that is easy to  
understand & interpret



Monthly cycles for a range of  
programmes



End of cycle  
reports



Certificates of  
registration

## SEQAS Programmes

Description	Cycle	Cat No.	Size
<b>SEQAS External Quality Assessment Programme</b>		SEQAS00P	
SEQAS Monthly Clinical Chemistry (Jan-Dec)	1 Cycle = 12 Months (1 Sample/Month)	SEQAS001	1 x 12 x 5ml
SEQAS Monthly Immunoassay Programme (Jan-Dec)	1 Cycle = 12 Months (1 Sample/Month)	SEQAS002	1 x 12 x 1ml
SEQAS Haematology Programme (Apr-Mar)	2 Cycles = 12 Months (1 Sample/Month)	SEQAS003	2 x 6 x 3ml
SEQAS Monthly HbA1c Programme (Jan-Dec)	1 Cycle = 12 Months (1 Sample/Month)	SEQAS004	1 x 12 x 0.5ml
SEQAS Monthly Coagulation Programme (Jan-Dec)	1 Cycle = 12 Months (1 Sample/Month)	SEQAS005	1 x 12 x 1ml
SEQAS Monthly Lipids Programme (Jan-Dec)	1 Cycle = 12 Months (1 Sample/Month)	SEQAS006	1 x 12 x 1ml
SEQAS Monthly Cardiac Programme (Jan-Dec)	1 Cycle = 12 Months (1 Sample/Month)	SEQAS007	1 x 12 x 2ml
SEQAS Monthly Blood Gas & Electrolytes Programme (Jan-Dec)	1 Cycle = 12 Months (1 Sample/Month)	SEQAS008	1 x 12 x 2ml
SEQAS Monthly Specific Protein Panel Programme (Jan-Dec)	1 Cycle = 12 Months (1 Sample/Month)	SEQAS009	1 x 12 x 1ml



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