

GETTING THE MOST OUT OF YOUR EXTERNAL QUALITY ASSURANCE (EQA) PROGRAM

The role of the clinical chemistry laboratory is to provide results that will enhance overall care and minimise risk to the patient. A patient oriented Quality Control (QC) process is one means by which the laboratory can continuously monitor how well it is performing this role.

Participation in an External Quality (EQ) assurance program, which is an independent and objective measure of performance, is a critical element of the QC process.

EQ assurance programs are available under the auspices of a professional body (e.g. RCPA & CAP) or through commercial companies (e.g. BioRad & Randox).

Participating in an EQ assurance program enables the laboratory to objectively assess assay performance and, in conjunction with the internal quality control processes and all other aspects of good laboratory practice, assess the overall quality of laboratory results.

To maximise the benefits of EQ assurance programs, it is vitally important that Selectra Pro System users, enrolling in a program for the first time or updating an existing subscription because of a change in reagent and/or instrument, select the correct method and instrument for each analyte.

To this end, a short presentation follows that outlines the process for enrolling in two widely used commercially available EQ assurance programs (EQAS & RIQAS) and a table that will ensure that you are selecting the correct methods for ELITechGroup reagents.



Configuring your ELITech Selectra Pro System for third party External Quality Assurance (EQA) Programs

September 2019

ELITechGroup CLINICAL SYSTEMS

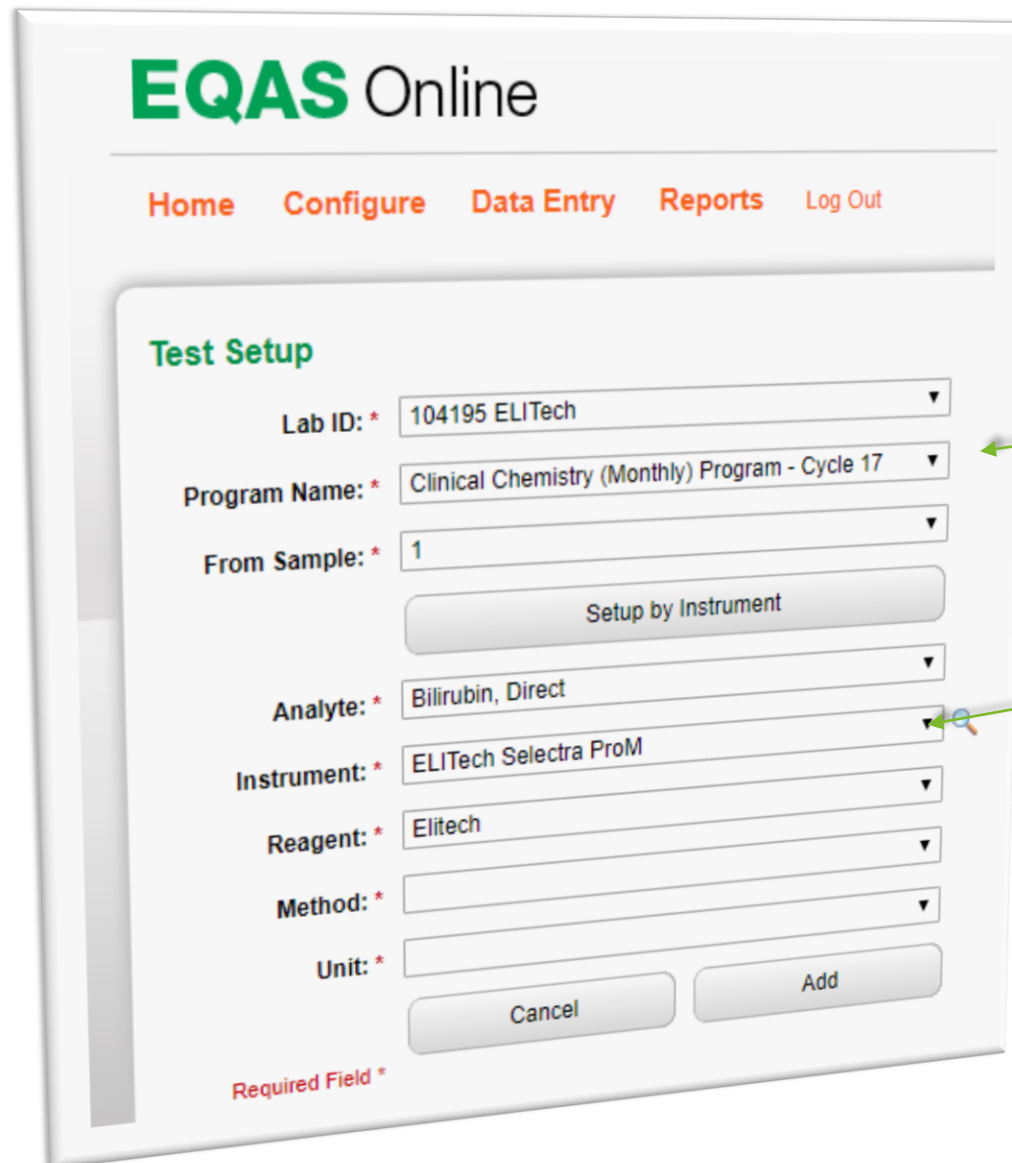
Overview

Benefits of EQA

- ◆ By enrolling in an External Quality Assurance (EQA) program, the performance of your laboratory is retrospectively compared to other laboratories using the same instruments and reagents (your peer group).
- ◆ EQA Programs are available from a variety of sources including both clinical chemistry professional bodies, as well as commercial organisations.
- ◆ Some examples of EQA programs include CAP; RCPA QAP; Bio-Rad EQAS; and Randox RIQAS
- ◆ To maximise the benefits of such programs, it is important that Selectra Pro users accurately complete the required selections for each test parameter when enrolling in a program for the first time or updating an existing subscription because of a change in reagent and/or instrument.

Information on setting up ELITech systems for two widely used, commercially available EQAPs follows

BioRad EQAS



The screenshot shows the 'EQAS Online' interface. At the top, there is a navigation bar with links: Home, Configure, Data Entry, Reports, and Log Out. Below this is the 'Test Setup' section. It contains several dropdown menus and text input fields, all marked with an asterisk to indicate they are required. The fields are: Lab ID (filled with '104195 ELITech'), Program Name (filled with 'Clinical Chemistry (Monthly) Program - Cycle 17'), From Sample (filled with '1'), Analyte (filled with 'Bilirubin, Direct'), Instrument (filled with 'ELITech Selectra ProM'), Reagent (filled with 'Elitech'), Method (empty), and Unit (empty). There is a 'Setup by Instrument' button below the 'From Sample' field. At the bottom of the form are 'Cancel' and 'Add' buttons. A red text label 'Required Field *' is at the bottom left of the form area.

This is the EQAS online website interface
<http://www.qcnet.com/>
where the configuration must be done at first stage
Please, fill all fields correctly

Select Clinical Chemistry Program

After selecting the Analyte (e.g. Bilirubin Direct), choose your **ELITech** instrument, Reagent, Method and reporting Unit (refer to Table on slide 6)

Repeat the operation for each analyte

Randox RIQAS



RIQAS

Home Login **Data Entry** PDF Reports Certificates PDF Mailing Details Change RIQASNet Password RIQAS Kit Inserts Logout

Login Successful

Enter Results
Assay Details

Welcome RIQASNet DEMO. You are now logged in at 14/06/2019 09:14:45.

***** We require additional information regarding the instruments that you are registered for. Please provide us with this information as soon as possible, by clicking on the link below. *****

[RIQAS Instrument Registration](#)

Instructions for use

[CONFIRMATION OF KIT CONTENTS AND DATE OF RECEIPT](#)


Instructions for use

RIQAS Evaluation of Performance
RIQAS Late and Corrected results - Change in policy
Request Form: Submission of Late or Corrected Results (English only)
RIQAS Appeals Form (English only)
RIQAS Complaints Form (English only)

After logging into the RIQASNet portal, select **Data Entry** from the top menu bar and then select **Assay Details** from the drop down menu.

Randox RIQAS



RIQAS

Home | Login | Data Entry | PDF Reports | Certificates | PDF Mailing Details | Change RIQASNet Password | RIQAS Kit Inserts | Logout

Assay Details

Save Changes | History of Changes | Remove Parameter

CLINICAL CHEMISTRY

Laboratory Ref. No. 153930/H

Registration Identifier elitech/Vitalab Flexor E

Parameter Albumin

Effective From Sample

☒ Current (Cycle: 60, Sample: 8)
☐ Future (Please specify below)

Cycle

Sample

Method

Instrument

Slide Gen. No. (if applicable)

Reagent Supplier

Unit

Save Changes | Previous Page

Please contact us if your method, instrument or reagent supplier is not listed above. Complete as many details as possible, then click the CONTACT RIQAS button below. We will amend your assay details for you. Please allow up to 3 weeks for this change to be completed by RIQAS. If you require an instrument or reagent supplier for multiple parameters, please contact your local Randox representative. [CONTACT RIQAS](#)

For each parameter select your Method, Instrument, ELITech Reagent and reporting Unit (refer to Table on slide 6).

Save all changes and repeat for all parameters.

Selectra Pro System

Recommended Configurations

Analyte	Instrument	Reagent Source		Reference	METHODOLOGY
		BioRad EQAS *	RIQAS / Other		
Albumin	Select your ELITechGroup Selectra Instrument from the following list Selectra Pro S Selectra Pro M Selectra Pro XL Selectra Junior Selectra E	Dedicated	ELITech	ALBU	Bromcresol Green (BCG)
Alkaline Phosphatase		Dedicated	ELITech	PASL	PNPP, DEA Buffer
ALT (ALAT/GPT)		Dedicated	ELITech	ALSL	UV without P5P
Amylase		Dedicated	ELITech	AMSL	CNP-triose/CNPG3
AST/GOT		Dedicated	ELITech	ASSL	UV without P5P
Bilirubin, Direct		Dedicated	ELITech	BIDI	Diazotization
Bilirubin, Total		Dedicated	ELITech	BITO	Diazonium Ion
Calcium		Dedicated	ELITech	CALA	Arsenazo III
Chloride		Dedicated	ELITech	ISE	ISE indirect
Cholesterol, HDL		Dedicated	ELITech	HDLL	Direct Enzymatic Colorimetric
Cholesterol, LDL		Dedicated	ELITech	LDLL	Direct measure
Cholesterol, Total		Dedicated	ELITech	CHSL	Cholesterol oxidase, esterase, peroxidase
Cholinesterase		Dedicated	ELITech	CHOL	Butyrylthiocholine (Trinder)
CO2 (Carbon Dioxide)		Dedicated	ELITech	ISE	ISE indirect
Creatine Kinase		Dedicated	ELITech	CKSL	NAC Activated - IFCC Ref. Proc., Calibrated
Creatinine		Dedicated	ELITech	CRSL	Enzymatic IFCC-IDMS Standardized
G- Glutamyltransferase		Dedicated	ELITech	GISL	G- glutamyl-carboxy-nitroanilide - IFCC Ref. Proc., Calibrated
Glucose		Dedicated	ELITech	GPSL	Glucose oxidase, hydrogen peroxide (Trinder)
Iron		Dedicated	ELITech	FEFE	Ferene
Lactate (Lactic Acid)		Dedicated	ELITech	LACT	Enzymatic
LDH		Dedicated	ELITech	LLSL	L to P - IFCC Ref. Proc., Calibrated
Lipase		Dedicated	ELITech	LPSL	Enzymatic, colorimetric
Magnesium		Dedicated	ELITech	MAGX	Xylidyl blue
Phosphorus		Dedicated	ELITech	PHOS	Phosphomolybdate method
Potassium		Dedicated	ELITech	ISE	ISE indirect
Protein, Total		Dedicated	ELITech	PROB	Biuret, reagent blank, end point
Sodium		Dedicated	ELITech	ISE	ISE indirect
Transferrin		Dedicated	ELITech	ITRAF	Immunoturbidimetric
Triglycerides		Dedicated	ELITech	TGML	Enzymatic, end point
Urea		Dedicated	ELITech	URSL	Urease, UV
Uric Acid		Dedicated	ELITech	AUML	Uricase, colorimetric
* Use for ELITech branded reagents					