RIQAS

RANDOX INTERNATIONAL QUALITY ASSESSMENT SCHEME

METHOD QUESTIONNAIRE
GENERAL CLINICAL CHEMISTRY
PROGRAMME
RQ9112

Please be aware that the RIQAS Instrument and reagent supplier codes are now in a separate booklet. Please ensure you have a copy of this in order to complete this document.

This document must be retained by participant

REGISTRATION INSTRUCTIONS & RIQAS POLICIES

CRITERIA FOR PARTICIPATION

This programme is available to any laboratory running the assays listed in this document. Quantitative results will be accepted on this programme.

INTRODUCTION

Method questionnaires are available for all routine RIQAS Programmes and are reviewed and updated every month, as indicated by the issue date at the bottom of every page. They are designed to allow you to register for this RIQAS Programme and to inform you of RIQAS protocols and policies. It is important that you read and understand all the information in these introductory pages before completing the enrolment document, which forms the basis of your registration and contract with RIQAS. If you have any questions or concerns about any of the information presented in this document, please contact RIQAS either directly or through your local Randox Laboratories representative. RIQAS Calendar dates and information about the RIQAS portfolio of products can be found on www.randox.com/external-quality-assessment.

REGISTRATION INSTRUCTIONS

NOTE: IF A REGISTERED PARTICIPANT DOES NOT PARTICIPATE FOR A CYCLE, THEY WILL BE EXPECTED TO COMPLETE NEW ENROLMENT DOCUMENTS IN ORDER TO RE-JOIN THE PROGRAMME.

METHOD QUESTIONNAIRE:- To be retained by participant

This method questionnaire should be completed and retained by you for your records. Please ensure that you complete the method questionnaire in full. Your details will help us to classify your results correctly and thus provide you with useful statistical data.

In order to fully complete this questionnaire you will also need a copy of the RIQAS Instruments and Reagent Suppliers which is available to download from the Randox website (www.randox.com/external-quality-assessment). Please ensure you have this list available when completing this questionnaire.

Following this introduction section is the method questionnaire which indicates the method codes available for each parameter along with the standard RIQAS unit. On the method questionnaire, for each parameter you wish to run, please tick the method appropriate to you, then state your instrument code, reagent code, and the units that you use in your laboratory if they are different from the RIQAS standard units. If codes are not available for your assay, please state the details of your method clearly in the section at the end of the enrolment document.

NB For enzymes, it is important for you to record the temperature at which the assay is performed.

Once your method questionnaire has been completed, you must transfer the information onto your enrolment document.

ENROLMENT DOCUMENT:- To be returned to RIQAS

Please be aware that it may take up to 3 weeks to process enrolment documents if you are not entering your own assay details. When registering RIQAS enrolment documents, it is recommended that you state business contact details, rather than personal.

A. LABORATORY REFERENCE NUMBER

On receipt of an enrolment document, each participant is assigned a **laboratory reference number** which consists of a **participant number** which is unique to your laboratory and a **registration letter** which is assigned for each new registration we receive from you. If you are a current or previous participant, please state your **participant number** on the enrolment document. If you do not have a Laboratory Reference Number, this will be generated by RIQAS when you register for the first time. Please quote this number on all correspondence with RIQAS.

B. GROUP REPORTS AND MULTIPLE REGISTRATIONS

Assessment of the same parameters on multiple systems - It is possible to enrol multiple instruments within your laboratory, up to five instruments per programme (volume permitting) can be added at no extra cost for comparative performance assessment. Kindly complete separate enrolment documents for each instrument clearly identifying each instrument in the box provided. A complementary instrument group report is supplied if you have returned results for more than one registration of the same programme. If you intend to enrol laboratories at different sites or if you are part of a group of laboratories, an inter-laboratory group report for each sample can be supplied on receipt of a completed authorisation form from each registered laboratory. Please contact RIQAS for a copy of the official inter-laboratory authorisation form.

C. CYCLE/PRODUCT REQUIREMENTS

Please tick the cycles you wish to subscribe for. If there is more than one kit/product offered for the programme, please also tick the kit you wish to subscribe for.

D. PRIMARY CONTACT DETAILS

It is important to state the full address details of the Quality Assessment Officer or contact person who will receive all correspondence during the cycle. Please also state the company name of the Randox representative who is supplying you with the RIQAS product under 'Randox Office/Distributor'

Please inform RIQAS of any change to contact details as soon as possible.

E. RIQAS**Net**

RIQASNet is a web-based online method for result entry / method changes and additions of parameters / viewing of released reports. To access RIQASnet go to www.riqas.net. Internet access and login details are required for RIQASNet and Adobe Reader is required for viewing reports. Your initial login information and password will be supplied by RIQAS. Once you have logged in for the first time you will be able to change your RIQASNet password. If you forget your password please follow the 'Forgotten Password' link. Your login information will be based on the 1st email address you supply on your enrolment document. A PDF copy of the report will be sent to this address and can also be sent to 2 other email addresses. These addresses should be stated on your enrolment document.

F. PDF REPORTS

Reports are sent as PDF files. These files can be sent to up to 3 email addresses. Adobe Reader is required to view the reports. The email addresses to which reports are sent can be reviewed and changed on RIQASNet.

G. SUMMARY CSV FILES

Labs can register to receive a csv file which contains a summary of your routine report statistics and performance indicators. This file mirrors the information found on the summary page of your report, except that we have included the calculated SD, SDPA and z-score. Also the PERFORMANCE column will show * in place of the red triangle usually shown on the summary page of your routine report. This can be sent to the 3 email addresses registered to receive the pdf reports. If you wish to receive a summary csv file please indicate this by ticking the box on the enrolment document and include the email addresses to which the reports should be sent. CSV files are also available for Instrument and Inter-Laboratory group reports. Please contact RIQAS for further information.

H. CUSTOMER DECLARATION

The declaration indicates that by submitting your enrolment document to RIQAS, either directly or via your local Randox representative, you have read and understood the RIQAS policies stated in the most recent Method Questionnaire associated with this programme. You understand that the submission of your enrolment document to RIQAS marks the beginning of an on-going agreement, and you will be automatically enrolled in subsequent cycles of this programme until we receive written confirmation of your cancellation. This should be received 12 weeks prior to the month in which the cycle starts. You understand that you must inform RIQAS of any changes to your contact details, assay details or contract status. You authorise Randox Laboratories Ltd. to send communication related to the products and service provided to the e-mail or postal addresses stated on your submitted enrolment document. You understand that you are permitted to request disclosure of, change or erase personal details held by Randox Laboratories Ltd. at any time. Note: Method questionnaires are updated every month and the issue date is stated on every questionnaire and enrolment document.

I. REGISTRATION OF ASSAY DETAILS

Labs can register their assay details using RIQASNet or can complete the 'Registration of Assay Details' section of the enrolment document. Labs should tick the appropriate box under the 'Registration of Assay Details' section of the enrolment document. If a lab wishes RIQAS to register their assay details, they should complete the Registration of Assay Details section using the codes from this method questionnaire and the Instrument/Reagent Supplier Book.

Once a participant has registered they will receive an email containing their RIQASNet login information. Once you have successfully logged in to RIQASNet you will see your various laboratory reference numbers for each registered programme. If you have opted to add parameters/assay details using RIQASNet, please do so as soon as possible (see below).

If no code is available for your assay, please state the details of your method clearly in the section at the end of the enrolment document or follow the instructions on RIQASNet.
For Ortho-Clinical Diagnostics VITROS registrations, please state the 2 digit slide Generation number for each analyte.

If units other than the standard RIQAS units are used, please specify these in the boxes supplied.

ONCE COMPLETED, THE ENROLMENT DOCUMENT SHOULD BE SENT TO RIQAS **FOR REGISTRATION.**

J. UPDATING ASSAY DETAILS

It is possible to change your unit, method, instrument or reagent classification during a cycle.

Method Changes via RIQASNet: These can be made in the Assay Details section of the Data Entry menu. A list of your registered laboratory reference numbers will appear on screen. Select the laboratory reference number for which you would like to change the assay details. A current list of assay details will appear, click on the appropriate parameter. To change the details click the arrow box on the appropriate details and select a new one. Save the changes and submit them to RIQAS. Changes will not be instantaneously updated on RIQASNet but will be uploaded onto RIQASNet usually within 3 working days. It is possible to submit results and method changes together as method changes will be made before results are entered in to the RIQAS database.

K. ADDITION OF PARAMETERS / ASSAY DETAILS

Adding Parameters via RIQASNet: Parameters can be added using the Assay Details section of the Data Entry menu. A list of your registered laboratory reference numbers will appear on screen. Select the laboratory reference number for which you would like to add the assay details. At the top of the screen is 'Add Parameter'. Click on this and a list of parameters you are not registered for will appear. Select the parameter you wish to add and click the arrow box on the appropriate details and select your assay details. Save the changes and submit them to RIQAS. As above, additions will be available on RIQASnet usually within 3 working days.

ORDERING RIQAS PRODUCTS

Please ensure your purchase order for each cycle is placed with your local Randox representative 12 weeks prior to the month in which the cycle starts. This will ensure sufficient time to process and despatch your kit(s) to you. Participants from UK or Ireland may order products directly from RIQAS with an official order number. Orders received within 12 weeks of the start of the cycle will be processed with an additional administration fee. Current prices of RIQAS products are available from your local Randox Laboratories representative.

It may be possible to order RIQAS products during a cycle, subject to availability. Please contact your local Randox representative for more information.

SHIPPING AND RECEIPT OF RIQAS PRODUCTS

Provided that you have ordered sufficiently in advance, your RIQAS kit(s) will be shipped to you to arrive before the analysis date of the first sample in the kit. If you do not receive your kit(s) before this time, please contact your local Randox representative.

On RIQASNet please access your account and download the relevant Instructions For Use (IFU) document for the programme and cycle purchased. The IFU includes material characteristics, preparation, stability, storage and safety information. On receipt of your RIQAS kit, please check that:

a) it is the product you ordered
b) the correct number of samples are present as indicated on the IFU
c) the samples have the appearance as indicated on the IFU and that none of them are damaged

Please notify your local Randox representative immediately if any of these are incorrect.

Please ensure that the product is immediately stored according to the recommendations on the package labelling.

ASSAY OF SAMPLES & RETURN OF RESULTS

Carefully read the instructions stated on the Instructions for Use (IFU) prior to preparation and assay of RIQAS samples. **These are available on RIQASNet only**. The RIQAS samples should be assayed at the recommended time specified on the IFU. Following appropriate preparation, samples should be treated as routine, unless otherwise stated on the IFU. Please assay the samples on or before the recommended date for analysis and forward your results to RIQAS by no later than **17:00 GMT on the FINAL DATE**, as indicated in the IFU. Results are submitted via RIQASNet, which can be accessed once you have received log in details via email. This will include a link to RIQASNet Instructions for Use.

LATE AND CORRECTED RESULTS

In keeping with the objectives of EQA schemes, participants should be aware that collusion and falsification of results is considered to be unethical and constitutes scientific fraud. RIQAS policies must ensure that a laboratory is unaware of RIQAS means for comparison before submitting their own results. Where a result is not submitted by the final date, a report will be issued, but the missing results will be indicated as “No return” or “N” throughout the RIQAS reports. RIQAS permits the submission of late or corrected results only under the circumstances described below. Requests for the submission of late or corrected results must be submitted in writing and in English on RIQAS Form No. 9277-RQ (either by the participant or their local Randox Representative) and must be approved by RIQAS Management. The form is available on www.riqas.net.

Requests for the submission of late results must be accompanied by evidence that an error has been made, and that the error has not been caused by the participant.

Requests for the correction or removal of erroneous results must be accompanied by evidence that the error was non-analytical, as defined on form 9277-RQ. RIQAS is obliged to inform country-specific regulatory bodies of requests for correction of results (if they request such information for laboratory monitoring purposes).

New reports will be re-issued for late or corrected results only where there has been an error made by Randox Laboratories HQ, Randox representatives or distributors.

LATE RESULTS

In general, late results will not be accepted after the final date.
Late results will only be accepted where there has been an error made by Randox Laboratories HQ, Randox representatives or distributors.

CORRECTED RESULTS

Laboratories may correct results only if it can be determined that the error was non-analytical and where the request for submission is within 4 weeks of the original final date. A laboratory may correct a result under the following circumstances:

- Reconstituting a sample in an incorrect volume before analysis
- Assaying and/or submitting the results for the wrong sample
- Making a transcription error - submission of an analyser print-out indicating that the analysis date was before the final date is required.

DESPATCH OF REPORTS

PDF reports will be emailed within 72 hours of the FINAL DATE and for those registered for RIQASNet the PDF reports will be available on RIQASNet shortly after.

END OF CYCLE REPORTS

At the end of a cycle, a summary report will be issued to all participants. This includes a summary page for each parameter, an Average Absolute SDI report and a Cerificate of Acceptable performance (see below).

USE OF RIQAS REPORTS

Participants have permission to make copies of their RIQAS reports for internal use and for regulatory purposes only. RIQAS reports must not be duplicated for external use without permission from the RIQAS Scheme Co-ordinator. Under no circumstances should information on RIQAS reports be taken out of context or falsified in any way. Information regarding the format of RIQAS Reports and the monitoring of EQA performance can be found in the RIQAS Brochure on www.randox.com/external-quality-assessment Information regarding the calculations and scores used to evaluate participants' performance on RIQAS Reports can be found following log in to RIQASNet, in a document entitled "Evaluation of Performance".

CONFIDENTIALITY

Participation in any RIQAS programme is considered to be strictly confidential. Any data transfer or correspondence with participants, either directly or via local Randox representative, will be deemed confidential. Participants should be aware that regulatory authorities have the right to request an assessment of a participant's performance. Where regulatory authorities are to be provided with a participant's results, participants will be notified.

GENERAL DATA PROTECTION REGULATION 2018 & UK DATA PROTECTION ACT 2018

Randox Laboratories Ltd. complies with GDPR and the UK Data Protection Act and holds the minimum information required to maintain the contract with RIQAS customers. Contact details are required in order to effectively provide you with the RIQAS products and services. Participants are not under any obligation to provide personal information to enter into a contract with RIQAS. We recommend that business contact details are provided. All data associated with the provision of RIQAS is collated, stored and processed confidentially and securely, to avoid unlawful processing, accidental loss or damage.

CERTIFICATES OF PARTICIPATION

Complimentary certificates of participation for each RIQAS programme are made available on RIQASNet to participants at the **end of the current cycle**, provided that **at least 50%** of results have been returned. Participants who enrol mid-cycle will be eligible for a Certificate for Participation if they have participated in at least 50% of samples available for the remainder of the cycle since enrolment. The certificate will specify the cycle, programme and the LABORATORY / HOSPITAL NAME which is detailed in the certificate section of RIQASNet. At the end of a cycle, a list of all eligible labs will be exported from RIQASNet and certificates will be created according to these details. Please ensure all certificate details are up to date in your RIQASNet account.

CERTIFICATE OF ACCEPTABLE PERFORMANCE

Participants are also provided with a Certificate of Acceptable Performance within their End-of-Cycle report. Acceptable performance is considered to be a Cycle Average Absolute SDI of less than 2. While all participants receive an end-of-cycle report, participants (including those who enrol mid-cycle) are only eligible for Certificates of Performance if they have returned more than half of the samples in a full cycle.

PERFORMANCE SURVEILLANCE OF UK LABS

RIQAS is obligated to identify and report persistent poor performing UK labs to the National Quality Assessment Advisory Panel. Poor performers are identified as those failing to meet performance criteria agreed with NQAAP. The performance criteria is specified in all performance surveillance correspondence with participants, and is also available on request. Participants are initially informed of poor performance by letter. Failure to improve performance will prompt details to be forwarded to NQAAP. All information sent to participants and NQAAP is strictly confidential. Please contact RIQAS if you require further information on Performance Surveillance.

PARTICIPANT FEEDBACK, COMPLAINTS & APPEALS

In order to ensure that RIQAS provides an appropriate and satisfying service, participants are invited to complete a feedback survey on RIQASNet. You may contact us at any time during the cycle, should you have any requests for additional programmes or parameters or comments regarding existing programmes.

RIQAS makes every effort to ensure that the samples provided are clinically challenging to as many laboratory systems as possible. For details, please contact RIQAS either directly or through your local Randox representative.

Should the need arise, participants may raise requests or enquiries through correspondence with the local Randox Laboratories representative or by contacting RIQAS directly. Participants may appeal against the evaluation of their performance by completing a PARTICIPANT APPEALS FORM, 10770-RQ. Participants may raise a complaint in relation to the product or service provided by completing the PARTICIPANT COMPLAINTS FORM, 10772-RQ. These forms are available on RIQASNet, or on request from RIQAS.

SUB-CONTRACTING

RIQAS sub-contracts aspects of the scheme. RIQAS accepts responsibility for the sub-contractors' work and protocols are in place to ensure that sub-contractors are deemed competent.

OUR COMPETENCE AS A PROFICIENCY TESTING PROVIDER

On request, RIQAS is willing to co-operate with participants seeking evidence of our competence as a proficiency testing provider or information on the design and implementation of RIQAS Programmes.

DEVIATION FROM EXISTING POLICIES/SERVICE

If there is any deviation from the existing policies or service, participants will be notified either directly or via their local Randox representative.

COMMUNICATION

As part of the service provided by Randox Laboratories Ltd., participants may be contacted by e-mail regarding updates and new products, in line with Randox Laboratories Ltd. privacy policy, as stated in www.randox.com.

THIS PROGRAMME IS ACCREDITED BY UKAS TO ISO/IEC 17043:2010

Please contact RIQAS at
Tel: +44 (0) 28 9445 4399
E-Mail mail@riqas.com
RIQAS Scheme Co-ordinator: Sally Picton
RANDOX LABORATORIES LTD., 55 Diamond Road, Crumlin, County Antrim, BT29 4QY, United Kingdom

UKAS PROFICIENCY TESTING

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RQ9112 - GENERAL CLINICAL CHEMISTRY

METHOD QUESTIONNAIRE

ACID PHOSPHATASE, PROSTATIC U/l

CODE		METHOD
APP7	☐	Chemiluminescence
APP2	☐	Naphthyl phosphate substrate, end point
APP1	☐	Naphthyl phosphate substrate, kinetic
APP6	☐	Naphthyl phosphate with pentane diol
APP3	☐	p-Nitrophenyl phosphate substrate
APP4	☐	Thymolphthalein phosphate substrate
APPDC	☐	Ortho Vitros Microslide Systems
		Vitros Slide Generation Number ☐☐
		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ☐

OTHER UNITS, SPECIFY ☐

ACID PHOSPHATASE, TOTAL U/l

CODE		METHOD
ACP2	☐	Naphthyl phosphate substrate, end point
ACP1	☐	Naphthyl phosphate substrate, kinetic
ACP6	☐	Naphthyl phosphate with pentane diol
ACP3	☐	p-Nitrophenyl phosphate substrate
ACP4	☐	Thymolphthalein phosphate substrate
ACPDC	☐	Ortho Vitros Microslide Systems
		Vitros Slide Generation Number ☐☐
		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ☐

OTHER UNITS, SPECIFY ☐

ALBUMIN g/l

CODE		METHOD
ALBAAG	☐	Abbott Alinity Albumin BCG 2
ALBAAP	☐	Abbott Alinity Albumin BCP 2
ALBARG	☐	Abbott Architect Albumin BCG 2
ALBARP	☐	Abbott Architect Albumin BCP 2
ALBAG	☐	Agappe - Bromocresol Green
ALB1	☐	Bromocresol Green (BCG)
ALB2	☐	Bromocresol Purple (BCP)
ALBCF	☐	Continuous Flow
ALBE	☐	Electrophoresis
ALBNP	☐	Nephelometric Assays
ALBT	☐	Turbidimetric Assays
ALBDC	☐	Ortho Vitros Microslide Systems
ALBDT	☐	Vitros DT60/DT60 II/DTSC II
		Vitros Slide Generation Number ☐☐
ALBOD	☐	Other Dry Chemistry
		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

RQ9112 - GENERAL CLINICAL CHEMISTRY

METHOD QUESTIONNAIRE

ALKALINE PHOSPHATASE U/l

CODE		METHOD
APAAI	☐	Abbott Alinity Alkaline Phosphatase 2
APARC	☐	Abbott Architect Alkaline Phosphatase 2
APAG	☐	Agappe - DGKC-SCE
APAGM	☐	Agappe- Kinetic Method IFCC
APBC	☐	Beckman AMP (Calibrator)
APBE	☐	Beckman AMP (Extinction Coeff)
APJS	☐	AMPD optimised to JSCC
APNON	☐	AMP, non-optimised
APIF	☐	AMP, optimised to IFCC
APNS	☐	AMP, optimised to NVKC/SFBC
APRED	☐	AMP, reduced interference
APINT	☐	Roche AMP Buffer IFCC
APDB	☐	Siemens/Dade Dimension, AMP buffer
APAMP	☐	Other AMP kits
APC	☐	Colorimetric
APDEA	☐	Diethanolamine buffer, DEA
APTRI	☐	Tris/carbonate buffer
APTRK	☐	Tris/carbonate buffer, KA units
APFJ	☐	Fuji Dri-Chem JSCC
APDC	☐	Ortho Vitros Microslide Systems
APDT	☐	Vitros DT60/DT60 II/DTSC II
		Vitros Slide Generation Number ☐☐
APOD	☐	Other Dry Chemistry
		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ☐

OTHER UNITS, SPECIFY ☐

ALANINE TRANSAMINASE, ALT U/l

CODE		METHOD
ALTAAI	☐	Abbott Alinity ALT 2
ALTARC	☐	Abbott Architect ALT 2
ALTAG	☐	Agappe - IFCC
ALTBTC	☐	Beckman (Extinction Coefficient)
ALTBIP	☐	Beckman IFCC Ref. with P5P
ALTBNP	☐	Beckman Mod. IFCC Ref. without P5P
ALTC	☐	Colorimetric
ALTJS	☐	LDH-JSCC
ALTP	☐	Phosphate buffer, DGKC
ALTDB	☐	Siemens/Dade standard non IFCC correlated
ALTNP	☐	Tris buffer without pyridoxal - 5 - phosphate
ALTIF	☐	Tris buffer with pyridoxal - 5 - phosphate
ALTP5	☐	Tris buffer with pyridoxal - 5 - phosphate, NVKC
ALTT	☐	Tris buffer, SCE
ALTDC	☐	Ortho Vitros Microslide Systems
ALTDV	☐	Ortho Vitros MicroSlide visible
ALTDT	☐	Vitros DT60/DT60 II/DTSC II
		Vitros Slide Generation Number ☐☐
ALTOD	☐	Other Dry Chemistry
		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ☐

OTHER UNITS, SPECIFY ☐

AMYLASE, PANCREATIC U/l

CODE		METHOD
PAM6B	☐	Amyloclastic Methods
PAMBK	☐	Beckman Synchron CX/LXi/DxC
PAM5	☐	Randox Liquid Stable pNPG7
PAM2	☐	Roche Liquid Stable pNPG7
PAM4	☐	Roche Reflotron
PAM1	☐	Immunoinhibition, EPS substrate
PAM3	☐	Other Dry Chemistry
		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ☐

OTHER UNITS, SPECIFY ☐

RQ9112 - GENERAL CLINICAL CHEMISTRY
METHOD QUESTIONNAIRE

AMYLASE, TOTAL U/l

CODE		METHOD
BLOCKED MALTOHEPTAOSIDE SUBSTRATES		
AMAAI	☐	Abbott Alinity Amylase 2
AMARC	☐	Abbott Architect Amylase 2
AM1S	☐	Beckman Olympus - blocked pNPG7
AM1T	☐	Beckman Synchron AMY7
AM1C	☐	bioMerieux
AM1D	☐	Biotrol
AM1P	☐	DCL
AM1H	☐	Medical Analysis Systems (MAS)
AM1N	☐	Other blocked Maltoheptaoside substrates
AM1K	☐	RAIchem
AM1J	☐	Randox Lyo. Ethylidene pNPG7
AM1Q	☐	Randox Liquid Ethylidene pNPG7
AM1R	☐	Roche liquid stable pNPG7
AM1B	☐	Siemens - blocked pNPG7
AM1L	☐	Sigma
AM1M	☐	Trace
NON-BLOCKED pNP MALTOHEPTAOSIDE SUBSTRATES		
AM2A	☐	BM/Roche Colorimetric pNPG7
AM2B	☐	Other non-blocked pNPG7
MALTOTETRAOSE SUBSTRATES		
AM3A	☐	Beckman Maltotetraose
AM3B	☐	Other Maltotetraose substrates
pNP MALTOPENTA/HEXA OSIDE SUBSTRATES		
AM4A	☐	Siemens/Bayer
AM4B	☐	Siemens/Dade
AM4C	☐	Other Maltopenta/hexaoside substrates
OTHER SUBSTRATES		
AM8J	☐	Abbott Architect/ Alinity cal. factor 3806
AM8K	☐	Abbott Architect/ Alinity cal. factor 3431
AM1U	☐	Abbott blocked pNPG7
AMAG	☐	Agappe - CNPG3
AMBE	☐	Beckman CNPG3 (Extinction Coeff)
AMBM	☐	Beckman CNPG3 (Master Cal)
AM8F	☐	2-chloro-pNPG3 - bioMerieux
AM8N	☐	2-chloro-pNPG3 - Human
AM8O	☐	2-chloro-pNPG3 - Human IFCC
AM8H	☐	2-chloro-pNPG3 - Instrumentation Laboratory (IL)
AM8E	☐	2-chloro-pNPG3 - Siemens/Dade Behring
AM8G	☐	2-chloro-pNPG3 - Other
AM8B	☐	2-chloro-pNP-linked substrate - Siemens/Bayer
AM8C	☐	2-chloro-pNP-linked substrate - Roche Integra
AM8D	☐	2-chloro-pNP-linked substrate - Other Roche
AM8A	☐	2-chloro-pNP-linked substrate - Other
AM6B	☐	Amyloclastic Methods
AM5A	☐	Beckman Synchron AS - dyed amylopectin
AM7A	☐	Phadebas Tablet
AM10	☐	pNP Maltotrioside substrates
AM6A	☐	Saccharogenic methods
AMWA	☐	Wiener Amilokit (AU/dl)
AYDC	☐	Ortho Vitros Microslide Systems
AYDT	☐	Vitros DT60/DT60 II
		Vitros Slide Generation Number ☐☐
AYOD	☐	Other Dry Chemistry
		Other methods, please specify on enrolment document

INSTRUMENT CODE ____________

REAGENT CODE ____________

RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ____________

OTHER UNITS, SPECIFY ____________

ANGIONTENSIN CONVERTING ENZYME, ACE U/l

CODE		METHOD
ACE3H	☐	3HB-GGG Start
ACEE	☐	ELISA
ACEFS	☐	FAPGG Start
ACEHH	☐	HHL Start

INSTRUMENT CODE ____________

REAGENT CODE ____________

RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ____________

OTHER UNITS, SPECIFY ____________

RQ9112 - GENERAL CLINICAL CHEMISTRY
METHOD QUESTIONNAIRE

ASPARTATE TRANSAMINASE, AST U/l

CODE		METHOD
ASTAAI	☐	Abbott Alinity AST 2
ASTARC	☐	Abbott Architect AST 2
ASTAG	☐	Agappe - IFCC
ASTBTC	☐	Beckman (Extinction Coefficient)
ASTBIP	☐	Beckman IFCC Ref. with P5P
ASTBNP	☐	Beckman Mod. IFCC Ref. without P5P
ASTC	☐	Colorimetric
ASTJS	☐	MDH-JSCC
ASTP	☐	Phosphate buffer, DGKC
ASTDB	☐	Siemens/Dade standard non IFCC correlated
ASTIF	☐	Tris buffer with pyridoxal - 5 - phosphate
ASTP5	☐	Tris buffer with pyridoxal - 5 - phosphate, NVKC
ASTNP	☐	Tris buffer without pyridoxal - 5 - phosphate
ASTT	☐	Tris buffer, SCE
ASTDV	☐	Ortho Vitros Microslide visible slide
ASTDT	☐	Vitros DT60/DT60 II/DTSC II
		Vitros Slide Generation Number ☐☐
ASTOD	☐	Other Dry Chemistry
		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ☐

OTHER UNITS, SPECIFY ☐

BICARBONATE mmol/l

CODE		METHOD
BICOL	☐	Colorimetric
BIDIF	☐	Differential rate pH change
BIENZ	☐	Enzymatic
BIISE	☐	Ion selective electrode
BIMAN	☐	Manometric
BIPEP	☐	PEP Carboxylase
BIDC	☐	Ortho Vitros Microslide Systems
BIDT	☐	Vitros DT60/DT60 II/DTE II
		Vitros Slide Generation Number ☐☐
BICOD	☐	Other Dry Chemistry
BICO		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

BILE ACIDS μmol/l

CODE		METHOD
BIAE	☐	Enzymatic Colorimetric
BIAES	☐	Enzymatic Colorimetric - Sentinel
BIOM		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

BILIRUBIN, CONJUGATED VITROS BC μmol/l

CODE		METHOD
BCBUBC	☐	BuBc Vitros slide
		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

RQ9112 - GENERAL CLINICAL CHEMISTRY
METHOD QUESTIONNAIRE

BILIRUBIN, UNCONJUGATED VITROS BU µmol/l

CODE		METHOD
BUBUBC	☐	BuBc Vitros slide

Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

BILIRUBIN, DIRECT µmol/l

CODE		METHOD
BDAG	☐	Agappe - DIAZO
BDDI	☐	Diazo with Dichloroanaline
BDSA	☐	Diazo with Sulphanilic Acid
BDBC	☐	Diazo/ Sulphanilic Beckman DxC
BDSD	☐	Diazo/ Sulphanilic Siemens Dimension
BDDD	☐	Dichlorophenyl Diazonium
BDPM	☐	Direct Spectrophotometry
BDVER	☐	Oxidation to Biliverdin/Vanadate
BDRD	☐	Roche DPD Doumas standardised
BDRJG	☐	Roche DPD JG standardised
BDCUS	☐	Roche (US Calibrator Only)
BDOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

BILIRUBIN, TOTAL µmol/l

CODE		METHOD
BIAAI	☐	Abbott Alinity Total Bilirubin 2
BIARC	☐	Abbott Architect Total Bilirubin 2
BIAAC	☐	Abbott Alin/Arch cal batch no > 97447/8/9
BIAGD	☐	Agappe - DMSO
BIAGT	☐	Agappe - TAB
BIASD	☐	Assel-DMSO
BIDI	☐	Diazo with Dichloroaniline
BISA	☐	Diazo with Sulphanilic Acid
BIION	☐	Diazonium ion
BDD	☐	Dichlorophenyl Diazonium
BBDPD	☐	Dichlorophenyl Diazonium (Beckman AU)
BINBD	☐	Nitrobenzenediazonium Salt
BIVER	☐	Oxidation to Biliverdin/Vanadate
BIPM	☐	Pfaff Medical - Bilimeter 3
BIBL	☐	Ortho Vitros Microslide Systems Total Bil
BIBT	☐	Vitros DT60/DT60 II Total Bil
		Vitros Slide Generation Number ☐☐
BIOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

RQ9112 - GENERAL CLINICAL CHEMISTRY

METHOD QUESTIONNAIRE

CALCIUM mmol/l

CODE		METHOD
CAAGA	☐	Agappe - ARSENAZO
CAAGO	☐	Agappe - OCPC
CAZO	☐	Arsenazo
CAAA	☐	Atomic absorption
CACPC	☐	Cresolphthalein complexone
CAISE	☐	Ion selective electrode
CAMB	☐	Methylthymol blue
CABAP	☐	NM-BAPTA
CAOES	☐	Optical Emission Spectroscopy
CAPO	☐	Phosphonazo
CADC	☐	Ortho Vitros Microslide Systems
CADT	☐	Vitros DT60/DT60 II/DTSC II
		Vitros Slide Generation Number ☐☐
CAOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

CALCIUM, ADJUSTED (PILOT) mmol/l

CODE		METHOD
CACLA	☐	Clase Equation -Tca(mmol/l)+0.018(35(g/L)-albumin(g/L)
CACON	☐	Conventional (Payne) Equation - Tca(mmol/l)+0.02 (40(g/L)-albumin(g/L))
CALDE	☐	Locally Derived Equation
CANEW	☐	New Equation - Tca(mmol/l)+0.01 (30(g/L)-albumin(g/L))
CAORR	☐	Orrell Equation - Tca(mmol/l)+0.0176 (34(g/L)-albumin(g/L))

Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

CALCIUM, IONISED mmol/l

CODE		METHOD
CIISE	☐	Ion Selective Electrode - ISE
CIOF	☐	Optical Fluorescence
CISP	☐	Spectrophotometric

Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

Please note that Ionised Calcium results should not be pH adjusted

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CHOLINESTERASE U/l

CODE		METHOD
CHEAG	☐	Agappe - DGKC/BUTYRYLTHIOCHOLINE
CHEAT	☐	Colorimetric - Acetylthiocholine
CHECBC	☐	Colorimetirc - Benzoylcholine
CHECBT	☐	Colorimetric - Butyrylthiocholine
CHECBD	☐	Colorimetric - Butyrythiochol. Dimension
CHEPT	☐	Colorimetric - Propionylthiocholine
CHEOD	☐	Other Dry Chemistry
CHEDC	☐	Ortho Vitros Microslide Systems
		Vitros Slide Generation Number ☐☐

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ☐

OTHER UNITS, SPECIFY ☐

CHLORIDE mmol/l

CODE		METHOD
CLAG	☐	Agappe - THIOCYANATE
CLCOL	☐	Colorimetric
CLCOU	☐	Coulometric
CLSED	☐	Ion Selective Electrode, direct
CLISE	☐	Ion Selective Electrode, indirect
CLTIT	☐	Titrimetric
CLOF	☐	Optical Fluorescence
CLDC	☐	Ortho Vitros Microslide Systems
CLDT	☐	Vitros DT60/DT60 II/DTE II
		Vitros Slide Generation Number ☐☐
CLOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

CHOLESTEROL mmol/l

CODE		METHOD
CHOAAI	☐	Abbott Alinity Cholesterol 2
CHOARC	☐	Abbott Architect Cholesterol 2
CHOAG	☐	Agappe - CHOD-PAP
CHOCD	☐	Cholesterol Dehydrogenase
CHOL	☐	Cholesterol Oxidase - Abell Kendall
CHOLI	☐	Cholesterol Oxidase - IDMS
CHOBL	☐	Sinocare Blood Lipid Reagent Kit
CHODB	☐	Siemens/Dade Behring reagents
CHODC	☐	Ortho Vitros Microslide Systems
CHODT	☐	Vitros DT60/DT60 II
		Vitros Slide Generation Number ☐☐
CHOOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

NON-HDL CHOLESTEROL (PILOT) mmol/l

CODE		METHOD
CHCAL	☐	Calculated

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

RQ9112 - GENERAL CLINICAL CHEMISTRY
METHOD QUESTIONNAIRE

CREATINE KINASE, TOTAL U/l

CODE		METHOD
CKIAB	☐	Abbott CK-NAC (IFCC)
CKAG	☐	Agappe - IFCC/KINETIC
CKIBC	☐	Beckman CK-NAC (IFCC)
CKIBE	☐	Beckman CK-NAC (Extinction Coeff)
CKIFF	☐	CK-NAC (IFCC)
CKACT	☐	CK-NAC serum start (DGKC)
CKNAC	☐	CK-NAC substrate start (DGKC)
CKCP	☐	Creatine phosphate substrate start
CKTD	☐	Dithioerythritol (DTE)
CKDIF	☐	Dithioerythritol (DTE) IFCC correlated
CKTM	☐	Monothioglycerol
CKDC	☐	Ortho Vitros Microslide Systems
CKDT	☐	Vitros DT60/DT60 II/DTSC II
		Vitros Slide Generation Number ☐☐
CKOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ☐

OTHER UNITS, SPECIFY ☐

COPPER µmol/l

CODE		METHOD
CUAA	☐	Atomic absorption
CUCOL	☐	Colorimetric
CUMS	☐	Mass Spectrometry
CUOES	☐	Optical Emission Spectroscopy

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

CREATININE µmol/l

CODE		METHOD
CRAAI	☐	Abbott Alinity Creatinine 2
CRARC	☐	Abbott Architect Creatinine 2
CRAGE	☐	Agappe - ENZYMATIC
CRAGJ	☐	Agappe - JAFFE'S KINETIC
CREAP	☐	Alkaline picrate without deproteinisation
CRDEP	☐	Alkaline picrate with deproteinisation
CRPAP	☐	Creatinine PAP method
CREUV	☐	Enzymatic UV method (340nm)
CRIDM	☐	IDMS traceable
CRERB	☐	Jaffe rate blanked
CREJC	☐	Jaffe rate blanked comp. for serum (-18umol/l)
CRERC	☐	Jaffe rate blanked compensated (subtract -26umol/l)
CRERD	☐	Jaffe rate blanked comp. (-33umol/l)
CRECP	☐	Roche Creatinine Plus
CREDT	☐	Vitros DT60/DT60 II/DTSC II
CREID	☐	Vitros, IDMS traceable
		Vitros Slide Generation Number ☐☐
CREOD	☐	Other Dry Chemistry
CREAO	☐	Other enzymatic methods

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

RQ9112 - GENERAL CLINICAL CHEMISTRY
METHOD QUESTIONNAIRE

EGFR (PILOT) ml/min/1.73m²

CODE		METHOD
EGCK	☐	CKD-EPI Equation
EGMD	☐	MDRD Equation

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

D-3-HYDROXYBUTYRATE mmol/l

CODE		METHOD
D3HPB	☐	Phosphate buffer 20mmol pH7.0
D3HRD	☐	Tris buffer 100mmol pH8.5

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

FRUCTOSAMINE umol/l

CODE		METHOD
FRNBA	☐	Abbott NBT 6K94
FRNBC	☐	Catachem NBT
FRNBT	☐	Nitrotetrazolium blue colorimetric assay
FRRDE	☐	Enzymatic assay
FRREM	☐	Randox Enzyme Method

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

GAMMA GLUTAMYL TRANSFERASE, GGT U/l

CODE		METHOD
GGTAAI	☐	Abbott Alinity GGT 2
GGTARC	☐	Abbott Architect GGT 2
GGTAG	☐	Agappe - SZASZ KINETIC
GGTBS	☐	Beckman Szasz (Extinction Coeff.)
GGTCL	☐	DCL gamma glutamyl-3-carboxy-4-nitroanalide
GGTCN	☐	Gamma glutamyl-3-carboxy-4-nitroanalide
GGTIF	☐	Gamma glutamyl-3-carboxy-4-nitroanalide (IFCC)
GGTN	☐	Gamma glutamyl-4-nitroanilide
GGTRCN	☐	Randox Colorimetric
GGTDB	☐	Siemens Dimension
GGTDC	☐	Ortho Vitros Microslide Systems
GGTDT	☐	Vitros DT60/DT60 II/DTSC II
		Vitros Slide Generation Number ☐☐
GGTOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ☐
OTHER UNITS, SPECIFY

GLUTAMATE DEHYDROGENASE U/l

CODE		METHOD
GLDRX	☐	Triethanolamine buffer
GLDDC	☐	Ortho Vitros Microslide Systems
		Vitros Slide Generation Number ☐☐

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ☐
OTHER UNITS, SPECIFY

RQ9112 - GENERAL CLINICAL CHEMISTRY

METHOD QUESTIONNAIRE

GLUCOSE mmol/l

CODE		METHOD
GLUAG	☐	Agappe - GOD-PAP
GLUDH	☐	Glucose dehydrogenase
GLUOX	☐	Glucose oxidase
GLBEK	☐	GOD/02-Beckman method
GLUHX	☐	Hexokinase
GLUOE	☐	Oxygen electrode
GLDC	☐	Ortho Vitros Microslide Systems
GLUDT	☐	Vitros DT60/DT60 II
		Vitros Slide Generation Number ☐☐
GLUOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

HYDROXYBUTYRATE DEHYDROGENASE U/l

CODE		METHOD
HBDH2	☐	Oxobutyrate < 10 mmol/l
HBDH1	☐	Oxobutyrate > 10mmol/l
HBDDC	☐	Ortho Vitros Microslide Systems
		Vitros Slide Generation Number ☐☐

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ☐

OTHER UNITS, SPECIFY ☐

HDL-CHOLESTEROL mmol/l

CODE		METHOD
DIRECT METHODS		
HDAG	☐	Agappe - SELECTIVE INHIBITION
HDL12	☐	Direct HDL, Clearance method
HDL10	☐	Direct HDL, Immunoseparation
HDL11	☐	Direct HDL, PEGME
HDL9	☐	Direct HDL, PPD (Polymer/Polyanion detergent)
HDR4	☐	Direct HDL, Roche 4th gen.
HDLUL	☐	HDL, Ultra/Accel Selective Detergent
HDLOD	☐	Other Dry Chemistry
HDLBL	☐	Sinocare Blood Lipid Reagent Kit
HDLDP	☐	Vitros dHDL, PTA/MgCl2 direct precip.
HDLMT	☐	Vitros 5.1 FS Microtip assay
HDVIM	☐	Vitros, Magnetic HDL
		Vitros Slide Generation Number ☐☐

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

IRON µmol/l

CODE		METHOD
FEAAI	☐	Abbott Alinity Iron 2
FEARC	☐	Abbott Architect Iron 2
FEAG	☐	Agappe - CHROMAZUROL
FE1	☐	Colorimetric with precipitation
FE2	☐	Colorimetric without precipitation
FEOES	☐	Optical Emission Spectroscopy
FEDC	☐	Ortho Vitros Microslide Systems
FEDT	☐	Vitros DT60/DT60 II/DTSC II
		Vitros Slide Generation Number ☐☐
FEOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

RQ9112 - GENERAL CLINICAL CHEMISTRY

METHOD QUESTIONNAIRE

LACTATE mmol//l

CODE		METHOD
LACCLO	☐	Colorimetric - Lactate oxidase
LACEE	☐	Enzymatic Electrode
LACISE	☐	Ion Selective Electrode
LACOD	☐	Other Dry Chemistry
LACUV	☐	UV - LDH
LACDC	☐	Ortho Vitros MicroSlide Systems
LACDT	☐	Vitros DT60/DT60 II
		Vitros Slide Generation Number ☐☐
		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

LACTATE DEHYDROGENASE, LD U/l

CODE		METHOD
LACTATE TO PYRUVATE METHODS		
LDAAI	☐	Abbott Alinity LD 2
LDARC	☐	Abbott Architect LD 2
LDBC	☐	L to P Beckman (Extinction Coeff)
LDIF	☐	L to P, IFCC
LDDB	☐	L to P Siemens/Dade,non-IFCC
LDLP	☐	Other Lactate to Pyruvate methods
PYRUVATE TO LACTATE METHODS		
LDAG	☐	Agappe - SCE
LDPL2	☐	P to L German methods
LDPL1	☐	P to L Scandinavian & Dutch methods
LDPL3	☐	P to L SFBC / SEQC
LDPL4	☐	Pyruvate 1.4 mM - Beckman LD-P
DRY CHEMISTRY		
LDDCI	☐	Ortho Vitros IFCC Traceable
LDDC	☐	Ortho Vitros Microslide Systems
LDDT	☐	Vitros DT60/DT60 II/DTSC II
		Vitros Slide Generation Number ☐☐
LDOD	☐	Other Dry Chemistry
		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ☐

OTHER UNITS, SPECIFY ☐

LDL-CHOLESTEROL (PILOT) mmol/l

CODE		METHOD
DIRECT METHODS		
LDL2	☐	Selective detergent methods
LDL4	☐	Other direct methods
LDL9	☐	Sel.detergent Beckman OSR6x83
LDL10	☐	Sel.detergent Beckman OSR6x96
LDLBL	☐	Sinocare Blood Lipid Reagent Kit
LDLSAI	☐	Siemens Atellica LDLC
OTHER METHODS		
LDL1	☐	Calculated
LDL8	☐	Heparin precipitation
LDL6	☐	Other Precipitation methods
LDL7	☐	Polyvinyl Sulphate Precipitation
LDL5	☐	Zwitterionic Detergent
LDLOD	☐	Other Dry Chemistry
		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

LIPASE U/l

CODE		METHOD
LIPAG	☐	Agappe - METHYL RESORUFIN
LIP10	☐	Colorimetric, Randox
LIP6	☐	Colorimetric, Roche ACN(8)731 / ID 0-100
LIP11	☐	Colorimetric, Roche ACN(8)789 / ID 0-052
LIP5	☐	Colorimetric, Siemens Dimension (LIP Kit)
LIP5A	☐	Colorimetric, Siemens Dimension (LIPL kit)
LIP7	☐	Colorimetric, Sigma
LIP2	☐	Other Colorimetric
LIP9	☐	Randox, Turbidimetric with colipase
LIP8	☐	Roche,Turbidimetric with colipase
LIP1	☐	Other Turbidimetric with colipase
LIP4	☐	Turbidimetric without colipase
LIP3	☐	Titrimetric
LIPDC	☐	Ortho Vitros Microslide Systems
LIPDT	☐	Vitros DT60/DT60 II/DTSC II
		Vitros Slide Generation Number ☐☐
LIPOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

RESULTS REPORTED AT 25°C ☐ 30°C ☐ 37°C ☐

OTHER UNITS, SPECIFY ☐

LITHIUM mmol/l

CODE		METHOD
LIAA	☐	Atomic absorption
LIFP	☐	Flame photometry
LIICP	☐	ICP-MS
LISE	☐	Ion selective electrode
LISP	☐	Spectrophotometry
LIDC	☐	Ortho Vitros Microslide Systems
LIDT	☐	Vitros DT60/DT60 II/DTSC II
		Vitros Slide Generation Number ☐☐
LIOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

MAGNESIUM mmol/l

CODE		METHOD
MGAG	☐	Agappe - XYLIDYL BLUE
MGAZO	☐	Arsenazo
MGAA	☐	Atomic absorption
MGCA	☐	Calmagite
MGCP	☐	Chlorphosphonazo III
MGEN	☐	Enzymatic
MGMS	☐	Mass Spectrometry
MGMB	☐	Methylthymol blue
MGXY	☐	Xylidyl Blue
MAGDC	☐	Ortho Vitros Microslide Systems
MGDT	☐	Vitros DT60/DT60 II
		Vitros Slide Generation Number ☐☐
MAGOD	☐	Other Dry Chemistry
MGMD	☐	Other magnesium dyes

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

NON-ESTERIFIED FATTY ACIDS (NEFA) mmol/l

CODE		METHOD
NFACSM	☐	ACS-ACOD-MEHA Method (inc. Maleimide)
NFCOL	☐	Colorimetric Endpoint
NFGC	☐	GC/MS
NFHPL	☐	HPLC
NFMIC	☐	Micro Method - FACL 50

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

RQ9112 - GENERAL CLINICAL CHEMISTRY
METHOD QUESTIONNAIRE

OSMOLALITY mOsm/Kg

CODE		METHOD
OSC	☐	Calculated
OSFPD	☐	Freezing point depression
OSVP	☐	Vapour pressure

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

PHOSPHATE, INORGANIC mmol/l

CODE		METHOD
PHAG	☐	Agappe - PHOSPHOMOLYBDATE
PHBK	☐	Beckman PHOSm kit (365nm)
PHENZ	☐	Phosphomolybdate enzymatic
PHMD	☐	Phosphomolybdate UV
PHDC	☐	Ortho Vitros Microslide Systems
PHDT	☐	Vitros DT60/DT60 II/DTSC II
		Vitros Slide Generation Number ☐☐
PHOD	☐	Other Dry Chemistry
PHOP	☐	Other methods, no protein ppt, please specify
PHOPT	☐	Other methods, with protein ppt, please specify

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

POTASSIUM mmol/l

CODE		METHOD
KAG	☐	Agappe - ISE DIRECT
KCHR	☐	Chromolyte
KCOL	☐	Colorimetric
KEN	☐	Enzymatic
KFP	☐	Flame photometry
KISE	☐	Ion Selective Electrode method - direct
KISE1	☐	Ion Selective Electrode method - indirect
KOF	☐	Optical Fluorescence
KTUR	☐	Turbidimetric
KDC	☐	Ortho Vitros Microslide Systems
KDT	☐	Vitros DT60/DT60 II/DTE II
		Vitros Slide Generation Number ☐☐
KOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

PROTEIN, TOTAL g/l

CODE		METHOD
PRAAI	☐	Abbott Alinity Total Protein 2
PRARC	☐	Abbott Architect Total Protein 2
PRAG	☐	Agappe - BIURET
PRCX	☐	Biuret reaction, CX4/CX5/CX7
PREP	☐	Biuret reaction, end point
PRKE	☐	Biuret reaction, kinetic
PRRF	☐	Refractometry
PRDC	☐	Ortho Vitros Microslide Systems
PRDT	☐	Vitros DT60/DT60 II
		Vitros Slide Generation Number ☐☐
PROD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

RQ9112 - GENERAL CLINICAL CHEMISTRY

METHOD QUESTIONNAIRE

PSA, TOTAL µg/l

CODE		METHOD
PSA31	☐	Abbott Architect/ Alinity
PSA18	☐	Abbott Axsym - monoclonal
PSA15	☐	Abbott Axsym - polyclonal
PSA21	☐	Abbott IMx - monoclonal
PSA1	☐	Abbott IMx - polyclonal
PSACE	☐	Acon EIA
PSA53	☐	AMP ELISA
PSAIC	☐	Aptasys Indra CLIA
PSABC	☐	Autobio CLIA
PSA26	☐	Beckman Access standardised to Hybritech
PSA23	☐	Beckman Access standardised to WHO IRP96/670
PSA36	☐	Beckman Coulter AU 3000i
PSA48	☐	Beckman DXI standardised to Hybritech
PSA49	☐	Beckman DXI standardised to WHO IRP96/670
PSA20	☐	bioMerieux VIDAS TPSA
PSABMA	☐	Boditech Med Inc AFIAS-6
PSA46	☐	Boditech Med Inc i-CHROMA
PSA2	☐	CIS ELISA 2
PSDIA	☐	Dialab ELISA
PSA40	☐	Diasorin Liaison
PSA53	☐	Diasorin Liaison XL
PSA38	☐	DSI ELISA
PSA41	☐	DRG ELISA
PSA37	☐	ELISA
PSFIN	☐	Finecare
PSA43	☐	Fujirebio Lumipulse G Series
PSSLT	☐	Lifotronic Ecl
PSAMAI	☐	Maccura I Series
PSA39C	☐	Monobind Inc CLIA
PSA39	☐	Monobind Inc ELISA
PSA32	☐	Ortho Vitros 3600 / 5600 / ECi
PSA44	☐	Ortho Vitros 3600 / 5600 / ECi PSA II
PSA8	☐	Perkin Elmer DELFIA
PSA47	☐	Radim Alisei
PSARTS	☐	Realy Tech series
PSA34	☐	Roche Cobas 4000 / e411
PSA6	☐	Roche Cobas Core EIA
PSA35	☐	Roche Cobas e601/602
PSA55	☐	Roche Cobas e402/e801
PSA19	☐	Roche Elecsys, Modular E170
PSA16	☐	Roche Enzymun
PSA7	☐	Serono MAIA Clone
PSSYI	☐	Shenzhen YHLO iFlash Series
PSA57	☐	Siemens Atellica IM
PSA17	☐	Siemens/Bayer ACS 180 - PSA II kit
PSA27	☐	Siemens/Bayer ACS180 (equimolar)
PSA28	☐	Siemens/Bayer ADVIA Centaur (equimolar)
PSA14	☐	Siemens/Bayer Immuno 1
PSA24	☐	Siemens Centaur
PSA22	☐	Siemens/Dade Behring Opus
PSA33	☐	Siemens/Dade, Dimension
PSA29	☐	Siemens Immulite 2000/2500 Total PSA
PSA30	☐	Siemens Immulite 2000/2500 3rd Generation
PSA13	☐	Siemens Immulite 1000 Total PSA
PSA25	☐	Siemens Immulite 1000 3rd Generation
PSA3	☐	Siemens/DPC IRMA count
PSA42	☐	SNIBE Maglumi analysers
PSA50	☐	Stratec Gemini
PSSHI	☐	Sysmex HISCL Series
PSA12	☐	Tosoh AIA Series
PSA56	☐	Tosoh AIA-CL Series
PSVLE	☐	Veda.Lab Easy Reader
PSA45	☐	Xema Medical EIA
PSAZYB	☐	Zybio CLIA

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

SODIUM mmol/l

CODE		METHOD
NAAG	☐	Agappe - ISE DIRECT
NACH	☐	Chromolyte
NACOL	☐	Colorimetric
NAEN	☐	Enzymatic
NAFP	☐	Flame photometry
NAISE	☐	Ion Selective Electrode method - direct
NISE1	☐	Ion Selective Electrode method - indirect
NAOES	☐	Optical Emission Spectroscopy
NAOF	☐	Optical Fluorescence
NADC	☐	Ortho Vitros Microslide Systems
NADT	☐	Vitros DT60/DT60 II/DTE II
		Vitros Slide Generation Number ☐☐
NAOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

RQ9112 - GENERAL CLINICAL CHEMISTRY
METHOD QUESTIONNAIRE

FREE TRIIODOTHYRONINE (FREE T3) pmol/l

CODE		METHOD
F3ARC	☐	Abbott Architect/ Alinity 2 point cal
F3AR6	☐	Abbott Architect/ Alinity 6 point cal
F3ABX	☐	Abbott, AxSym
F3ABB	☐	Abbott, IMx
F3AMP	☐	AMP ELISA
F3AIC	☐	Aptasys Indra CLIA
F3ABC	☐	Autobio CLIA
F3SAN	☐	Beckman, Access
F3DXI	☐	Beckman, DxI 600/800
F3BCI	☐	Biocheck Inc ELISA
F3BIV	☐	Biomerieux, VIDAS
F3VIA	☐	Biomerieux, VIDIA
F3CBE	☐	Calbiotech ELISA
F3CII	☐	CIS, IRMA
F3BYK	☐	Diasorin (RIA)
F3LIA	☐	Diasorin Liaison
F3LIX	☐	Diasorin Liaison XL
F3ERT	☐	EDAN Rapid Test
F3ELI	☐	ELISA
F3FIN	☐	Finecare
F3FJL	☐	Fujirebio Lumipulse G Series
F3HP	☐	HPLC
F3SLT	☐	Lifotronic eCL
F3MAI	☐	Maccura I Series
F3MPT	☐	Medcaptain Immu F9
F3MOC	☐	Monobind Inc CLIA
F3MOE	☐	Monobind Inc ELISA
F3NTE	☐	NovaTec EIA
F3VEC	☐	Ortho Vitros, 3600/5600/ECi/XT 7600
F3DEL	☐	Perkin Elmer DELFIA
F3RRD	☐	Radim RAD 120
F3EVE	☐	Randox Evolution
F3RCE	☐	Roche Cobas 4000 / e411
F3ROC	☐	Roche, Cobas Core
F3C6	☐	Roche Cobas e601/ 602
F3E8	☐	Roche Cobas e402/e801
F3EYS	☐	Roche, Elecsys
F3BOE	☐	Roche, Enzymun
F3RME	☐	Roche, Modular E170
F3SYI	☐	Shenzhen YHLO iFlash Series
F3SAI	☐	Siemens Atellica IM
F3CC	☐	Siemens/Bayer, ACS 180
F3BAY	☐	Siemens/Bayer, Immuno I
F3CEN	☐	Siemens Centaur
F3DDE	☐	Siemens Dimension Exl LOCI
F3DDV	☐	Siemens Dimension Vista LOCI
F3DPC	☐	Siemens/DPC, Coat-a-Count
F3DPI	☐	Siemens/DPC, Immulite 1000
F3DP2	☐	Siemens/DPC, Immulite 2000/2500
F3SNM	☐	SNIBE Maglumi Analysers
F3GEM	☐	Stratec Gemini
F3SHI	☐	Sysmex HISCL Series
F3TSC	☐	Tisenc Accre 8 CLIA
		Other methods, please specify on enrolment document

CODE		METHOD
F3TOS	☐	Tosoh AIA Series
F3TE	☐	Tulip Electra
F3TOC	☐	Tosoh AIA-CL Series
F3VBE	☐	Vector Best ELISA
F3C2	☐	Wantai Caris 200
F3W2	☐	Wantai Wan200+
F3WNL	☐	Wiener Lab CLIA
F3ZYB	☐	Zybio CLIA

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

RQ9112 - GENERAL CLINICAL CHEMISTRY
METHOD QUESTIONNAIRE

TRIIODOTHYRONINE (TOTAL T3) nmol/l

CODE		METHOD
T3ARC	☐	Abbott, Architect/ Alinity
T3ABX	☐	Abbott, Axsym
T3ABB	☐	Abbott, IMx
T3AIC	☐	Aptasys Indra CLIA
T3ABC	☐	Autobio CLIA
T3SAN	☐	Beckman, Access/LXi725
T3DXI	☐	Beckman, DxI 600/800
T3BIV	☐	bioMerieux, VIDAS
T3BIE	☐	Bios T3 ELISA
T3BMI	☐	Boditech Med i-Chroma
T3BMA	☐	Boditech Med Inc AFIAS-6
T3CIR	☐	CIS, RIA coated tube
T3BYK	☐	Diasorin (RIA)
T3LIA	☐	Diasorin Liaison
T3LIX	☐	Diasorin Liaison XL
T3DIA	☐	DiaSource RIA
T3DSL	☐	DSL, RIA
T3ELI	☐	ELISA
T3FIN	☐	Finecare
T3FJL	☐	Fujirebio Lumipulse G Series
T3GEN	☐	Genrui T3 Test Kit
T3HP	☐	HPLC
T3IMI	☐	Immunotech, IRMA
T3IZO	☐	Izotop RIA
T3SLT	☐	Lifotronic Ecl
T3LBO	☐	Lansion Bio
T3MAI	☐	Maccura I Series
T3MC2	☐	Mindray CL-Series
T3MOC	☐	Monobind Inc CLIA
T3MOE	☐	Monobind Inc ELISA
T3MP	☐	MP Biomedicals, RIA
T3VEC	☐	Ortho Vitros, 3600/5600/ECi/XT 7600
T3DEL	☐	Perkin Elmer DELFIA
T3PEW	☐	Perkin Elmer Wizard RIA
T3RAY	☐	Rayto Lumiray
T3RTS	☐	Realy Tech Series
T3RCE	☐	Roche Cobas 4000 / e411
T3ROC	☐	Roche, Cobas Core
T3C6	☐	Roche Cobas e601/ 602
T3E8	☐	Roche Cobas e402/e801
T3EYS	☐	Roche, Elecsys
T3BOE	☐	Roche, Enzymun
T3RME	☐	Roche, Modular E170
T3SYI	☐	Shenzhen YHLO iFlash Series
T3SAI	☐	Siemens Atellica IM
T3CC	☐	Siemens/Bayer, ACS 180
T3BAY	☐	Siemens/Bayer, Immuno I
T3CEN	☐	Siemens Centaur
T3DDV	☐	Siemens/Dade Dimension Vista
T3DPC	☐	Siemens/DPC, Coat-a-count
T3DPI	☐	Siemens/DPC, Immulite 1000
T3DP2	☐	Siemens/DPC, Immulite 2000/2500
T3SNM	☐	SNIBE Maglumi Analysers
T3GEM	☐	Stratec Gemini
T3TOS	☐	Tosoh AIA Series
T3TE	☐	Tulip Electra

CODE		METHOD
T3VLE	☐	Veda.Lab Easy Reader
T3C2	☐	Wantai Caris 200
T3W2	☐	Wantai Wan200+
T3ZYB	☐	Zybio CLIA

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

RQ9112 - GENERAL CLINICAL CHEMISTRY

METHOD QUESTIONNAIRE

FREE THYROXINE (FREE T4) pmol/l

CODE		METHOD
F4ARC	☐	Abbott, Architect/ Alinity
F4ABX	☐	Abbott, AxSym
F4ABB	☐	Abbott, IMx
F4AMP	☐	AMP ELISA
F4AIC	☐	Aptasys Indra CLIA
F4ABC	☐	Autobio CLIA
F4SAN	☐	Beckman, Access/LXi725
F4DXI	☐	Beckman, Dxl 600/800
F4BCI	☐	Biocheck Inc ELISA
F4BIVN	☐	Biomerieux,VIDAS-FT4N Kit
F4VIA	☐	Biomerieux, VIDIA
F4BMI10	☐	Boditech Med Inc AFIAS-10
F4BYK	☐	DiaSorin (RIA)
F4LIA	☐	Diasorin Liaison
F4LIX	☐	Diasorin Liaison XL
F4DIA	☐	DiaSource RIA
F4ERT	☐	EDAN Rapid Test
F4ELI	☐	ELISA
F4FIN	☐	Finecare
F4FJL	☐	Fujirebio Lumipulse G Series
F4GB	☐	General Biologicals ELISA
F4HP	☐	HPLC
F4IMI	☐	Immunotech, IRMA
F4SLT	☐	Lifotronic Ecl
F4MAI	☐	Maccura I Series
F4MPT	☐	Medcaptain Immu F6
F4MC2	☐	Mindray CL-Series
F4MOC	☐	Monobind Inc CLIA
F4MOE	☐	Monobind Inc ELISA
F4NTE	☐	NovaTec EIA
F4VEC	☐	Ortho Vitros, 3600/5600/ECi/XT 7600
F4DEL	☐	Perkin Elmer DELFIA
F4RRD	☐	Radim RAD 120
F4EVE	☐	Randox Evolution
F4RAY	☐	Rayto Lumiray
F4RCE	☐	Roche Cobas 4000 / e411
F4ROC	☐	Roche Cobas Core
F4C6	☐	Roche Cobas e601/ 602
F4E8	☐	Roche Cobas e402/e801
F4EYS	☐	Roche, Elecsys
F4RME	☐	Roche, Modular E170
F4SYI	☐	Shenzhen YHLO iFlash Series
F4SAI	☐	Siemens Atellica IM
F4CC	☐	Siemens/Bayer, ACS 180
F4IMS	☐	Siemens/Bayer, ADVIA IMS 800i
F4BAY	☐	Siemens/Bayer, Immuno I
F4CEN	☐	Siemens Centaur
F4DD	☐	Siemens/Dade Dimension
F4DDE	☐	Siemens Dimension Exl LOCI
F4DDV	☐	Siemens Dimension Vista LOCI
F4DPC	☐	Siemens/DPC, Coat-a-Count
F4DPI	☐	Siemens/DPC, Immulite 1000
F4DP2	☐	Siemens/DPC, Immulite 2000/2500
F4SNM	☐	SNIBE Maglumi Analysers
F4GEM	☐	Stratec Gemini
F4SHI	☐	Sysmex HISCL Series
F4TSC	☐	Tisenc Accore 8 CLIA
F4TOS	☐	Tosoh AIA Series
F4TOC	☐	Tosoh AIA-CL Series

CODE		METHOD
F4TE	☐	Tulip Electra
F4VBE	☐	Vector Best ELISA
F4C2	☐	Wantai Caris 200
F4W2	☐	Wantai Wan200+
F4WNL	☐	Wiener Lab CLIA
F4ZYB	☐	Zybio CLIA

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

THYROXINE (TOTAL T4) nmol/l

CODE		METHOD
T4ARC	☐	Abbott, Architect/ Alinity
T4ABX	☐	Abbott, AxSym
T4ABB	☐	Abbott, IMx/FLx/TDx
T4AIC	☐	Aptasys Indra CLIA
T4ABC	☐	Autobio CLIA
T4DXI	☐	Beckman DxI 600/800
T4SAN	☐	Beckman, Access/LXi725
T4BCI	☐	Biocheck Inc ELISA
T4BIV	☐	Biomerieux, VIDAS
T4BIE	☐	Bios T4 ELISA
T4BMI	☐	Boditech Med i-Chroma
T4BMA	☐	Boditech Med Inc AFIAS-6
T4BRR	☐	Brahms RIA
T4CBE	☐	Calbiotech ELISA
T4CIR	☐	CIS, RIA coated tube
T4LIA	☐	Diasorin Liaison
T4LIX	☐	Diasorin Liaison XL
T4DIA	☐	DiaSource RIA
T4DSL	☐	DSL, RIA
T4ELI	☐	ELISA
T4FIN	☐	Finecare
T4FJL	☐	Fujirebio Lumipulse G Series
T4GEN	☐	Genrui T4 Test Kit
T4HP	☐	HPLC
T4ICO	☐	Idexx Catalyst One/Dx
T4IMI	☐	Immunotech RIA
T4IZO	☐	Izotop RIA
T4LBO	☐	Lansion Bio
T4SLT	☐	Lifotronic Ecl
T4MAI	☐	Maccura I Series
T4MC2	☐	Mindray CL-Series
T4MOC	☐	Monobind Inc CLIA
T4MOE	☐	Monobind Inc ELISA
T4MP	☐	MP Biomedicals, RIA
T4VEC	☐	Ortho Vitros 3600/5600/ECi/XT 7600
T4DEL	☐	Perkin Elmer DELFIA
T4PEW	☐	Perkin Elmer Wizard RIA
T4RTS	☐	Realy Tech Series
T4RCE	☐	Roche Cobas 4000 / e411
T4ROC	☐	Roche Cobas Core
T4C6	☐	Roche Cobas e601/ 602
T4E8	☐	Roche Cobas e402/e801
T4EYS	☐	Roche Elecsys
T4RME	☐	Roche Modular E170
T4SYI	☐	Shenzhen YHLO iFlash Series
T4SAI	☐	Siemens Atellica IM
T4CC	☐	Siemens/Bayer, ACS 180
T4BAY	☐	Siemens/Bayer, Immuno I
T4CEN	☐	Siemens Centaur
T4DDV	☐	Siemens/Dade Dimension Vista
T4DPC	☐	Siemens/DPC, Coat-a-Count
T4DPI	☐	Siemens/DPC, Immulite 1000
T4DP2	☐	Siemens/DPC, Immulite 2000/2500
T4SNM	☐	SNIBE Maglumi Analysers
T4GEM	☐	Stratec Gemini
T4MIE	☐	Thermo Scientific / Microgenics DRI
T4TOS	☐	Tosoh AIA Series
T4TE	☐	Tulip Electra
T4VBE	☐	Vector Best ELISA
T4VLE	☐	Veda.Lab Easy Reader
T4C2	☐	Wantai Caris 200
T4W2	☐	Wantai Wan200+
T4ZYB	☐	Zybio CLIA

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

TOTAL IRON BINDING CAPACITY µmol/l

CODE		METHOD
TIBAG	☐	Agappe - PRECIPITATION
TICAT	☐	Calculated from Transferrin
TIBCD	☐	Direct Colorimetric
UIBC	☐	FE+UIBC(saturation with fixed amount of iron)
TIRCD	☐	Randox Colorimetric
TIBC	☐	Removal of excess free iron
IBCDC	☐	Ortho Vitros Microslide Systems
		Vitros Slide Generation Number ☐☐
IBCDV	☐	Ortho Vitros Microtip
IBCOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

TRIGLYCERIDES

IMPORTANT NOTE

Triglycerides can be analysed and reported using several techniques

a) TOTAL GLYCEROL

The Total Glycerol in the sample is measured and reported . With this method only one measurement is required. Participants using this technique should select a method code from the TRIGLYCERIDES, TOTAL GLYCEROL section below.

b) TOTAL GLYCEROL WITH ESTIMATED FREE GLYCEROL CORRECTION

The Total Glycerol is measured as in a) and 0.11 mmol/l (10 mg/dl) is subtracted from this to give a corrected result. Participants using this technique should select a method code from the TRIGLYCERIDES, TOTAL GLYCEROL section below.

c) TOTAL GLYCEROL WITH TRUE FREE GLYCEROL CORRECTION

Two measurements are made: one for Total Gylcerol and one for Free Glycerol and the difference between the two is reported. ***RIQAS*** participants using this method should choose a method code from the TRIGLYCERIDES, TOTAL GLYCEROL WITH TRUE FREE GLYCEROL CORRECTION section.

If you are in any doubt which method you use, please contact ***RIQAS***

TRIGLYCERIDES, TOTAL GLYCEROL mmol/l

CODE		METHOD
METHOD 1 - LIPASE/GPO-PAP		
TGAAI	☐	Abbott Alinity Triglyceride 2
TGARC	☐	Abbott Architect Triglyceride 2
TRIAG	☐	Agappe - GPO - TOPS
TG1A	☐	Lipase/GPO-PAP no correction
TG1B	☐	Lipase/GPO-PAP , 0.11mmpl/l correction
TGBL	☐	Sinocare Blood Lipid Reagent Kit
TGDB	☐	Siemens Dimension
TGSAI	☐	Siemens Atellica Trig_2
METHOD 2 - LIPASE/GLYCEROL KINASE UV		
TG2A	☐	Lipase/GK UV, no correction
TG2B	☐	Lipase/GK UV, 0.11mmol/l correction
METHOD 3 - LIPASE/GLYCEROL DEHYDROGENASE		
TG3	☐	Lipase/Glycerol Dehydrogenase
METHOD 4 - DRY CHEMISTRY		
TRIDC	☐	Ortho Vitros Microslide Systems
TRIDT	☐	Vitros DT60/DT60 II
		Vitros Slide Generation Number ☐☐
TRIOD	☐	Other Dry Chemistry
		Other methods, please specify on enrolment document

TRIGLYCERIDES, TOTAL GLYCEROL WITH TRUE FREE GLYCEROL CORRECTION mmol/l

CODE		METHOD
METHOD 1 - LIPASE/GPO-PAP		
TG1C	☐	Colorimetric 'free' glycerol blank correction
METHOD 2 - LIPASE/GLYCEROL KINASE UV		
TG2C	☐	End-point 'free' glycerol blank correction
		Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

RQ9112 - GENERAL CLINICAL CHEMISTRY

METHOD QUESTIONNAIRE

THYROID STIMULATING HORMONE (TSH) uU/ml

CODE		METHOD
TSARC	☐	Abbott Architect/ Alinity
TSAX3	☐	Abbott AxSym 3rd generation
TSABX	☐	Abbott AxSym Ultrasensitive hTSH II
TSABB	☐	Abbott IMx Ultrasensitive hTSH II
TSAEC	☐	Adaltis Eclectica
TSAIR	☐	Adaltis IRMA
TSAMP	☐	AMP ELISA
TSAIC	☐	Aptasys Indra CLIA
TSABC	☐	Autobio CLIA
TSSAF	☐	Beckman Access / LXi725 Fast TSH 2nd gen
TSSAN	☐	Beckman Access / LXi725 hyper TSH 3rd gen
TSDX3	☐	Beckman DXI 600/800 / Access 2 (3rd IS)
TSDXI	☐	Beckman DXI 600/800 1st generation
TSDXF	☐	Beckman DXI 600/800 fast TSH
TSDXH	☐	Beckman DXI 600/800 Hyper TSH
TSBCI	☐	Biocheck Inc ELISA
TSVIA	☐	Biomerieux VIDIA
TSBV3	☐	Biomerieux VIDAS TSH3 (ultrasensitive)
TSBIV	☐	Biomeriuex VIDAS TSH
TSBIE	☐	Bios TSH ELISA
TSBMI10	☐	Boditech Med Inc AFIAS-10
TSBMI	☐	Boditech Med Inc i-Chroma
TSDME	☐	DiaMetra ELISA
TSLIA	☐	Diasorin Liaison
TSLIX	☐	Diasorin Liaison XL
TSDIR	☐	DiaSource IRMA
TSDRG	☐	DRG ELISA
TSDSE	☐	DSI ELISA
TSERT	☐	EDAN Rapid Test
TSELI	☐	ELISA
TSFIN	☐	Finecare
TSFJL	☐	Fujirebio Lumipulse G Series
TSGB	☐	General Biologicals ELISA
TSGEN	☐	Genrui TSH Test Kit
TSICT	☐	Iason coaTube TSH
TSIMI	☐	Immunotech IRMA
TSSLT	☐	Lifotronic Ecl
TSLBO	☐	Lansion Bio
TSMAI	☐	Maccura I Series
TSMPT	☐	Medcaptain Immu F6
TSMOE	☐	Monobind Inc ELISA/CLIA
TSMPR	☐	MP Biomedicals RIA
TSVEC	☐	Ortho Vitros TSH
TSVE3	☐	Ortho Vitros TSH3
TSDEL	☐	Perkin Elmer DELFIA
TSDEU	☐	Perkin Elmer DELFIA Ultra
TSRRD	☐	Radim RAD 120
TSRAY	☐	Rayto Lumiray
TSRTS	☐	Realy Tech Series
TSRCE	☐	Roche Cobas 4000 / e411
TSROC	☐	Roche Cobas Core
TSC6	☐	Roche Cobas e601/ 602
TSE8	☐	Roche Cobas e402/e801
TSEYS	☐	Roche Elecsys
TSRME	☐	Roche Modular E170
TSSYI	☐	Shenzhen YHLO iFlash Series
TSSAI	☐	Siemens Atellica IM
TSCC	☐	Siemens/Bayer ACS 180
TSCC3	☐	Siemens/Bayer ACS 180, 3rd generation
TSCEN	☐	Siemens Centaur
TSCN3	☐	Siemens Centaur 3rd Generation
TSCNU	☐	Siemens Centaur TSH3-Ultra
TSDD	☐	Siemens/Dade Dimension
TSDDE	☐	Siemens Dimension Exl LOCI
TSDDV	☐	Siemens Dimension Vista LOCI
TSDPI	☐	Siemens/DPC Immulite 1000
TSDP2	☐	Siemens/DPC Immulite 2000/2500
TSSNM	☐	SNIBE Maglumi Analysers
TSSHI	☐	Sysmex HISCL Series
TSTSC	☐	Tisenc Accre 8 CLIA
TSTOS	☐	Tosoh AIA Series
TSTOC	☐	Tosoh AIA-CL Series
TSTE	☐	Tulip Electra
TSVBE	☐	Vectror Best ELISA
TSVLE	☐	Veda.Lab Easy Reader
TSC2	☐	Wantai Caris 200
TSW2	☐	Wantai Wan200+
TSWIT	☐	Wiener lab. TSH
TSZYB	☐	Zybio CLIA

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

UNSATURATED IRON-BINDING CAPACITY (UIBC) umol/l

CODE		METHOD
UIBCC	☐	Calculated
UIBCD	☐	Direct Colorimetric
UIBCDC	☐	Ortho Vitros Microslide Systems
		Vitros Slide Generation Number ☐☐

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

RQ9112 - GENERAL CLINICAL CHEMISTRY

METHOD QUESTIONNAIRE

UREA mmol/l

CODE		METHOD
URARC	☐	Abbott Architect Urea Nitrogen 2
URAGB	☐	Agappe - BERTHELOT
URAGU	☐	Agappe - UREASE GLDH
URAC	☐	Beckman-Conductivity
URDM	☐	Diacetyl monoxime
URPHT	☐	O-Phthalaldhyde
URUEP	☐	Urease, end point
URURH	☐	Urease, hypochlorite
URUK	☐	Urease, kinetic
URDC	☐	Ortho Vitros Microslide Systems
URDT	☐	Vitros DT60/DT60 II
		Vitros Slide Generation Number ☐☐
UROD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

URIC ACID mmol/l

CODE		METHOD
UAAI	☐	Abbott Alinity Uric Acid 2
UARC	☐	Abbott Architect Uric Acid 2
UAAGP	☐	Agappe - URICASE - PAP
UAAGT	☐	Agappe - URICASE - TOPS
URED	☐	Reduction methods
URSP	☐	Uricase @ 293nm
URPER	☐	Uricase peroxidase without ascorbate oxidase
URPA2	☐	Uricase peroxidase with ascorbate oxidase @ 546nm
URPAS	☐	Uricase peroxidase with ascorbate oxidase
URCAT	☐	Uricase - catalase 340nm.
UACDC	☐	Ortho Vitros Microslide Systems
UADT	☐	Vitros DT60/DT60 II
		Vitros Slide Generation Number ☐☐
UACOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

ZINC µmol/l

CODE		METHOD
ZAA	☐	Atomic absorption
ZCOL	☐	Colorimetric with deprot.
ZNPC	☐	Colorimetric without deprot.
ZNFP	☐	Flame Photometry
ZNMS	☐	Mass Spectrometry
ZOES	☐	Optical Emission Spectroscopy

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐