REGISTRATION INSTRUCTIONS & RIQAS POLICIES

CRITERIA FOR PARTICIPATION

This programme is available to any laboratory running the urine based 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 Amylase 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 ask your local Randox representative to check availability before completing the order/enrolment document.

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

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 via Fixed Scope

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

UKAS PROFICIENCY TESTING

0010

RQ9115 - HUMAN URINE PROGRAMME

METHOD QUESTIONNAIRE

ALBUMIN CREATININE RATIO (ACR) mg/mmol

CODE		METHOD
ACRA	☐	Automated
ACRM	☐	Manual

INSTRUMENT CODE ☐

REAGENT CODE ☐

OTHER UNITS, SPECIFY ☐

AMYLASE U/l

CODE		METHOD
BLOCKED MALTOHEPTAOSIDE SUBSTRATES		
UAMAAI	☐	Abbott Alinity Amylase 2
UAMARC	☐	Abbott Architect Amylase 2
UAM1T	☐	Beckman Synchron AMY7
UAM1C	☐	bioMerieux
UAM1D	☐	Biotrol
UAM1P	☐	DCL
UAM1H	☐	M.A.S. - blocked pNPG7
UAM1S	☐	Beckman
UAM1N	☐	Other blocked pNPG7
UAM1K	☐	RAIchem
UAM1J	☐	Randox Lyo. Ethylidene pNPG7
UAM1Q	☐	Randox Liquid Ethylidene pNPG7
UAM1R	☐	Roche liquid pNPG7
UAM1B	☐	Siemens
UAM1L	☐	Sigma
UAM1M	☐	Trace
NON-BLOCKED pNP MALTOHEPTAOSIDE SUBSTRATES		
UAM2B	☐	Other non blocked pNPG7
MALTOTETRAOSE SUBSTRATES		
UAM3A	☐	Beckman Maltotetraose
UAM3B	☐	Other maltotetraose substrates
pNP MALTOPENTA-/HEXA-OSIDE SUBSTRATES		
UAM4B	☐	Siemens - maltapenta/hexaoside
UAM4C	☐	Other Maltopenta/hexaoside substrates
OTHER SUBSTRATES		
UAM8Q	☐	Abbott Alinity cal. factor 3806
UAM8P	☐	Abbott Alinity cal. factor 3431
UAM8J	☐	Abbott Architect cal. factor 3806
UAM8K	☐	Abbott Architect cal. factor 3431
UAM8F	☐	2-chloro-pNPG3 - bioMerieux
UAM8N	☐	Human CNPG3
UAM8O	☐	Human CNPG3 IFCC
UAM8H	☐	I.L. 2-chloro-pNPG3
UAM8G	☐	Other 2-chloro-pNPG3
UAM8E	☐	Siemens 2-chloro-pNPG3
UAM8D	☐	Other Roche 2-chloro-pNPG7
UAM8A	☐	Other 2-chloro-pNP-linked substrate
UAM8C	☐	Roche Integra 2-chloro-pNPG7 substrate
UAM8B	☐	Siemens 2-chloro-pNP-linked substrate
UAM5A	☐	Beckman AS - dyed amylopectin
UAM7A	☐	Phadebas Tablet
UAM10	☐	pNP maltotrioside substrates
UAM6A	☐	Saccharogenic
UAYDC	☐	Vitros
		Vitros Slide Generation Number ☐☐
UAMOD	☐	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 ☐

RQ9115 - HUMAN URINE PROGRAMME

METHOD QUESTIONNAIRE

CALCIUM mmol/l

CODE		METHOD
CAZO	☐	Arsenazo
CAAA	☐	Atomic absorption
CACPC	☐	Cresolphthalein Complexone (CPC)
CAMSI	☐	ICP-MS
CAISE	☐	Ion Selective Electrode
CAMB	☐	Methylthymol blue
CABAP	☐	NM-BAPTA
CUDC	☐	Vitros
		Vitros Slide Generation Number ☐☐
CUOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐☐☐☐☐☐

REAGENT CODE ☐☐☐☐☐☐

OTHER UNITS, SPECIFY ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

CHLORIDE mmol/l

CODE		METHOD
CLUCL	☐	Colorimetric
CLUCC	☐	Coulometric
CLUIS	☐	Ion Selective Electrode
CLUMT	☐	Mercuric thiocyanate
CLUT	☐	Titrimetric
CLUDC	☐	Vitros
		Vitros Slide Generation Number ☐☐
CLUOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐☐☐☐☐☐

REAGENT CODE ☐☐☐☐☐☐

OTHER UNITS, SPECIFY ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

COPPER µmol/l

CODE		METHOD
UCUAA	☐	Atomic absorption
UCUCO	☐	Colorimetric
UCUMS	☐	Mass Spectrometry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐☐☐☐☐☐

REAGENT CODE ☐☐☐☐☐☐

OTHER UNITS, SPECIFY ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

CORTISOL nmol/l

CODE		METHOD
COCLD	☐	Chemiluminesence (direct analysis)
COCLX	☐	Chemiluminesence (with solvent extraction)
CODEE	☐	Demeditec diagnostics ELISA
COEUD	☐	Enzyme immunoassay (direct analysis)
COEUX	☐	Enzyme immunoassay (with solvent extraction)
COLDE	☐	Labor Diagnostika ELISA
COLCMS	☐	LC/MS
COFUD	☐	Polarisation Fluoroimmunoassay (direct analysis)
COFUX	☐	Polarisation Fluoroimmunoassay (with solvent extraction)
CORUD	☐	RIA methods (direct analysis)
CORUX	☐	RIA methods (with solvent extraction)
COSACC	☐	Siemens Advia Centaur (rgt<19367&cal<CE72)
COSAIM	☐	Siemens Atellica IM (rgt<19367&cal<CE72)
COUPM	☐	UPLC/HPLC

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐☐☐☐☐☐

REAGENT CODE ☐☐☐☐☐☐

OTHER UNITS, SPECIFY ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

RQ9115 - HUMAN URINE PROGRAMME

METHOD QUESTIONNAIRE

CREATININE mmol/l

CODE		METHOD
CRAAI	☐	Abbott Alinity Creatinine 2
CRARC	☐	Abbott Architect Creatinine 2
CREUP	☐	Alkaline picrate without deproteinisation
CRDIR	☐	Dirui Uristik
CREAU	☐	Enzymatic
CRERB	☐	Jaffe rate blanked
CRERC	☐	Jaffe rate blanked compensated (-26umol/l)
CRERD	☐	Jaffe rate blanked comp. (-33umol/l)
CREJC	☐	Jaffe rate compensated (-18umol/l)
CRELMS	☐	LC/MS
CRECP	☐	Roche Creatinine Plus
CRID	☐	IDMS traceable
CREID	☐	Vitros,IDMS Traceable
CRDT	☐	Vitros DT60/DT60 II/DTSC II
		Vitros Slide Generation Number ☐☐
CREOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

DOPAMINE nmol/l
(DIHYDROXYPHENYLETHYLAMINE)

CODE		METHOD
DOPC	☐	Column test
DOELI	☐	ELISA
DOHP	☐	HPLC
DOLCMS	☐	LC/MS

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

EPINEPHRINE nmol/l
(ADRENALIN)

CODE		METHOD
ADRC	☐	Column test
ADELI	☐	ELISA
ADHP	☐	HPLC
ADLCMS	☐	LC/MS
ADRIA	☐	RIA

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

GLUCOSE mmol/l

CODE		METHOD
GLUDU	☐	Glucose dehydrogenase
GLUOU	☐	Glucose oxidase
GLBEU	☐	GOD/O2 - Beckman
GLUHU	☐	Hexokinase
GLUOT	☐	O-Toluidine
GLUOO	☐	Oxygen electrode
GLUUD	☐	Vitros
		Vitros Slide Generation Number ☐☐
GLUOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

RQ9115 - HUMAN URINE PROGRAMME

METHOD QUESTIONNAIRE

5-HYDROXY- INDOLE ACETIC ACID µmol/l
(5-HIAA)

CODE		METHOD
HIAAN	☐	Colorimetric (nitrosonaphthol)
HIAAC	☐	Column test
HIAEL	☐	ELISA
HIAAH	☐	HPLC
HIAAL	☐	LC/MS

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐☐☐☐
REAGENT CODE ☐☐☐☐
OTHER UNITS, SPECIFY ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

MAGNESIUM mmol/l

CODE		METHOD
MUZO	☐	Arsenazo
MUAA	☐	Atomic absorption
MUCA	☐	Calmagite
MUCP	☐	Chlorophosphonazo III
MUEN	☐	Enzymatic
MUMSI	☐	ICP-MS
MUMB	☐	Methylthymol blue
MUXY	☐	Xylidyl blue
MUMD	☐	Other magnesium dyes
MUDC	☐	Vitros
		Vitros Slide Generation Number ☐☐
MUOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐☐☐☐
REAGENT CODE ☐☐☐☐
OTHER UNITS, SPECIFY ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

METANEPHRINE µmol/l

CODE		METHOD
MEPC	☐	Column test
MEELI	☐	ELISA
MEHP	☐	HPLC
MELCMS	☐	LC/MS

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐☐☐☐
REAGENT CODE ☐☐☐☐
OTHER UNITS, SPECIFY ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

MICROALBUMIN mg/l

CODE		METHOD
ABUDA	☐	Double antibody
ABUE	☐	ELISA
ABUT	☐	Immunoturbidimetric
ABUNP	☐	Nephelometric
AUMT	☐	Vitros 5.1 FS/5600/XT 7600 Microtip
ABUOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE ☐☐☐☐
REAGENT CODE ☐☐☐☐
OTHER UNITS, SPECIFY ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

RQ9115 - HUMAN URINE PROGRAMME

METHOD QUESTIONNAIRE

NOREPINEPHRINE nmol/l
(NORADRENALIN)

CODE		METHOD
NORC	☐	Column test
NOELI	☐	ELISA
NOHP	☐	HPLC
NOLCMS	☐	LC/MS
NORIA	☐	RIA

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

NORMETANEPHRINE µmol/l

CODE		METHOD
NMEPC	☐	Column test
NMELI	☐	ELISA
NMEHP	☐	HPLC
NMLCMS	☐	LC/MS

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

OSMOLALITY mOsm/Kg

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

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

OXALATE mmol/l

CODE		METHOD
OXGA	☐	Glyc. acid - chromotropic acid
OXHP	☐	HPLC
OXOX	☐	Oxalate oxidase
OXPD	☐	Precipitation/derivitisation

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

PHOSPHATE, INORGANIC mmol/l

CODE		METHOD
PHALI2	☐	Abbott Alinity Phos 2
PHARC2	☐	Abbott Architect Phos 2
PHBK	☐	Beckman PHOSm kit (365nm)
PHENU	☐	Phosphomolybdate enzymatic
PHMDU	☐	Phosphomolybdate UV.
PHDCU	☐	Vitros
		Vitros Slide Generation Number ☐☐
PHDOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

RQ9115 - HUMAN URINE PROGRAMME

METHOD QUESTIONNAIRE

POTASSIUM mmol/l

CODE		METHOD
KCHRU	☐	Chromolyte
KUEN	☐	Enzymatic
KFPU	☐	Flame photometry
KUMSI	☐	ICP-MS
KUSE	☐	Ion Selective Electrode
KUTU	☐	Turbidimetric
KUDC	☐	Vitros
		Vitros Slide Generation Number ☐☐
KUOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

PROTEIN, TOTAL g/l

CODE		METHOD
PUA5	☐	Biuret reaction - direct
PUA4	☐	Biuret reaction with precipitation
PUA3	☐	Coomassie blue - direct
PUA2	☐	Coomassie blue with precipitation
PUA1	☐	Ponceau S with precipitation
PUA8	☐	Pyrogallol Red
PURF	☐	Refractometry
PUA9	☐	Siemens UCFP Reagent
PUA7	☐	Sulphosalicylic acid
PUA6	☐	Turbidimetry
PUADC	☐	Vitros
		Vitros Slide Generation Number ☐☐

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

SODIUM mmol/l

CODE		METHOD
NUCH	☐	Chromolyte
NUEM	☐	Enzymatic
NUFP	☐	Flame photometry
NUMSI	☐	ICP-MS
NAUSE	☐	Ion Selective Electrode
NUDC	☐	Vitros
		Vitros Slide Generation Number ☐☐
NUOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE

OTHER UNITS, SPECIFY

RQ9115 - HUMAN URINE PROGRAMME

METHOD QUESTIONNAIRE

UREA mmol/l

CODE		METHOD
URARC	☐	Abbott Architect Urea Nitrogen 2
URAC	☐	Beckman - conductivity
URDM	☐	Diacetyl monoxime
URPHT	☐	O-Phthalaldehyde
URURH	☐	Urease - hypochlorite
URUEP	☐	Urease, end point
URUK	☐	Urease, kinetic
URUDC	☐	Vitros
		Vitros Slide Generation Number ☐☐
URUOD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

URIC ACID (Urate) mmol/l

CODE		METHOD
UAAI	☐	Abbott Alinity Uric Acid 2
UARC	☐	Abbott Architect Uric Acid 2
URBEA	☐	Beckman AU US Calibrator (DR0090)
URBEO	☐	Beckman AU Non-US Calibrator (B64606)
URED	☐	Reduction methods
URSP	☐	Uricase @ 93nm
URCAT	☐	Uricase - catalase 340 nm
URPER	☐	Uricase - peroxidase, without ascorbate oxidase
URPAS	☐	Uricase - peroxidase with ascorbate oxidase
URPA2	☐	Uricase - peroxidase with ascorbate oxidase @ 546nm
UACDC	☐	Ortho Vitros MicroSlide Systems
		Vitros Slide Generation Number ☐☐
UROD	☐	Other Dry Chemistry

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY

VANILLYLMANDELIC ACID (VMA) µmol/l

CODE		METHOD
UMAC	☐	Column test
UHPLC	☐	HPLC
ULCMS	☐	LC/MS
UMAP	☐	Pisano methodology
USE	☐	Solvent Extraction
UWS	☐	Whale Scientific methodology

Other methods, please specify on enrolment document

INSTRUMENT CODE
REAGENT CODE
OTHER UNITS, SPECIFY