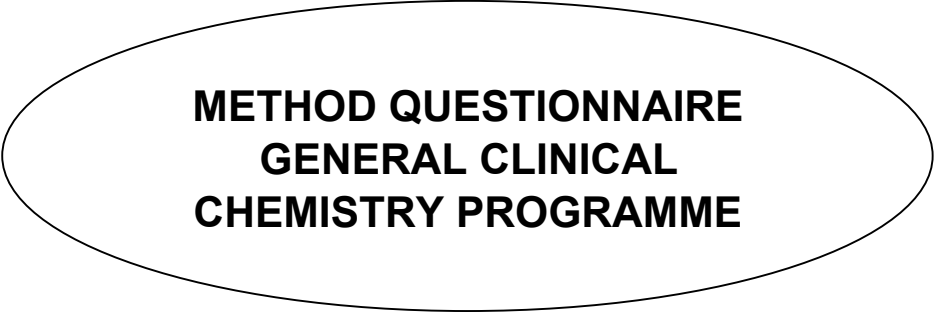


# ***RIQAS***

**RANDEX INTERNATIONAL QUALITY ASSESSMENT SCHEME**



**METHOD QUESTIONNAIRE  
GENERAL CLINICAL  
CHEMISTRY PROGRAMME**

**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. 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. 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.

## REGISTRATION INSTRUCTIONS

### 1. 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.

Following these introductory pages you will find:

- i. A list of laboratory analysers, each with a numeric code, in order for you to select a code for each analyte.
- ii. A similar list of reagent suppliers, each with a numeric code, in order for you to select a code for each analyte.
- iii. 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.

- iv. 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.**

### 2. ENROLMENT DOCUMENT:- To be returned to *RIQAS*

**Please be aware that it may take up to 3 weeks to process enrolment documents.**

#### A. LABORATORY REFERENCE NUMBER

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.

#### B. ORDER NUMBER

If you are a UK or Irish participant, please state your official order number in the boxes provided. Other participants may order directly from their local Randox Laboratories representative.

#### 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. CONTACT DETAILS

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

#### E. *RIQAS* Net

An alternative to e-transfer, *RIQAS* Net is a web-based online method for result entry/method changes/viewing of released reports. Reports will be sent to up to 3 email addresses as PDF files. Internet access and login details are required for *RIQAS* Net and Adobe Reader is required for viewing reports. If you wish to use *RIQAS* Net please indicate this by ticking the box on the enrolment document. Your login information and password will be supplied by *RIQAS*. 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 can now be sent as PDF files as an alternative to paper reports. These files can be sent to up to 3 email addresses. If you wish to receive PDF reports please indicate this by ticking the box on the enrolment document and include the email addresses to which the reports should be sent. Adobe Reader is required to view the reports.

#### G. E-TRANSFER

If you wish to send results and receive reports electronically using the *RIQAS* e-transfer software please contact your local Randox representative. You will be supplied with a copy of the software and instructions for installation and use. **If you wish to use e-transfer, please indicate this by ticking the box on the enrolment document and include the email address that will be used for e-transfer.** You will be issued with a laboratory reference number for each enrolment. Please enter your laboratory reference number(s) into the registration form on your e-transfer software and e-mail it to returns@riqas.com. Following registration, you will receive a look up table (.tbl file) containing information required to activate your software.

#### H. GROUP REPORTS

It is possible to enrol **multiple instruments** within your laboratory. **Kindly complete separate enrolment documents for each instrument.** 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.

## I. REGISTRATION OF METHODS

Complete the 'Registration of Methods' section for all required parameters using the codes you selected on your method questionnaire. 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.

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.**

**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.**

## J. CHANGES DURING A CYCLE

Please inform *RIQAS* of any change to contact details as soon as possible. It is also possible to change your unit, method, instrument or reagent classification during a cycle.

**Participants who use return sheets:** Each Results Return Sheet has a section for method changes. Please state your new classification codes at the bottom of your next return sheet. We assume that your new classification will be in routine use from the date on the return sheet unless you tell us otherwise. If you have added or deleted a parameter, changed your unit or Vitros slide generation number, an updated return sheet will be forwarded to you. It is important that you discard your old return sheet and use only your updated copy for future returns.

**Participants who use RIQAS Net:** Changes can be made in the Method Changes 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 and the assay details will appear. 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 receipt of method changes *RIQAS* staff will manually process and update your assay details which will then be uploaded onto *RIQAS* Net. It is possible to submit results and method changes at the same time as method changes will be made before results are submitted.

**Participants who use e-transfer:** Changes can be made in the Method Changes section of the Data Entry menu. Select the appropriate lab reference number, choose the appropriate details from the drop-down headers, indicate the cycle and sample from which the change is to be initiated, then tab off the line to save. You can simultaneously send Method Changes and Results to *RIQAS*. *RIQAS* staff will update your assay details and send a new look-up table, which must be saved into your \riqas\email folder in order to update your software with the new assay details.

## LABORATORY REFERENCE NUMBERS, RETURN SHEETS & LOOK-UP TABLES

On receipt of your enrolment document *RIQAS* will generate a **Laboratory Reference Number** for your laboratory and additional numbers for associated laboratories or multiple instruments if requested. If you are registering for the first time you will be sent *RIQAS* literature, which will enable you to understand the *RIQAS* process and interpret your reports.

**E-transfer** participants will be issued with a laboratory reference number for each enrolment. Please enter these details into the registration form on your e-transfer software and e-mail it to returns@riqas.com. Following registration, you will receive a look up table (.tbl file) containing details to activate your software and enable you to enter results, send them to *RIQAS* and view reports received from *RIQAS*.

Participants using *RIQAS* Net will receive an email containing their login information. Once you have successfully logged in to *RIQAS* Net you will see your various laboratory reference numbers for each registered programme.

Participants who do not use e-transfer or *RIQAS* Net will be sent a master return sheet which is specific for your registered parameters and units. You should photocopy this sheet as required and use it to return results to *RIQAS*.

## ORDERING RIQAS PRODUCTS

Please ensure that your order is placed with your local Randox representative **at least 6-8 weeks** before 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 6 weeks of the start of the cycle will be processed, but *RIQAS* cannot guarantee delivery in time for the first sample. 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 receipt of your *RIQAS* kit, please check that:

- a) it is the product you ordered
- b) the tamper-proof label has not been broken
- c) the kit contains detailed Instructions For Use (IFU), including material characteristics, preparation, stability, storage and safety
- d) the correct number of samples are present as indicated on the IFU
- e) 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. 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. If returning results on return sheet, it is most important that your Laboratory Reference Number(s), cycle number, sample number and FINAL DATE for return of results are clearly written at the top of the return sheet. If you wish to fax your results please transmit them 3 working days before the FINAL DATE to + 44 (0) 28 9445 4398. You may also e-mail your results to mail@riqas.com. Please contact *RIQAS* for a RESULT RETURN SHEET template.

## 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. While RIQAS permits the submission of late or corrected results under the circumstances described below, routine reports are clearly marked to indicate late and corrected results.

### LATE RESULTS

Results received after the FINAL DATE will be processed retrospectively. Participants will still receive their report which will record late results as "NO RESULTS" until reprocessing is complete. Please ensure that any late results you wish to submit reach us by no later than the final date of the following sample. Any results received after this date will not be entered.

### CORRECTED RESULTS

Participants will be permitted to submit corrected results up to 4 weeks after the final date of the sample. While a new report will not be issued, corrected results will be processed retrospectively and results can be viewed on subsequent reports.

## DESPATCH OF REPORTS

Results will normally be processed within 2 days of the FINAL DATE. Reports sent by e-transfer are despatched as soon as the results have been processed. PDF reports will also be sent as soon as the results have been processed and for those registered for *RIQAS* Net the PDF reports will be available on *RIQAS* Net shortly after. Printed reports usually take a further 1-3 days to print and despatch.

## CERTIFICATES OF PARTICIPATION

Complimentary certificates of participation for each *RIQAS* programme are available to participants at the **end of the current cycle**, provided that **at least 50%** of results have been returned. The certificate will specify the cycle, programme and the LABORATORY / HOSPITAL NAME specified in the address details of the enrolment document. However, **there will be an administration charge for modifications or additions to the standard certificate**. A maximum of three lines will be permitted for a modified certificate. Please state modifications in the ADDITIONAL CERTIFICATE DETAILS section of the enrolment document. There will also be an administration charge for additional copies of certificates. Modified certificates may be requested through your local Randox representative.

## 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 their laboratory accreditation bodies 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.

## 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 & RIGHT TO APPEAL

In order to ensure that *RIQAS* provides an appropriate and satisfying service, all participants will be provided with a feed-back questionnaire towards the end of a cycle. We would invite you to 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 appeal against the interpretation of their results or assessment of their performance through correspondence with the local Randox Laboratories representative or by contacting *RIQAS* directly.

## 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.

THIS PROGRAMME IS ACCREDITED BY UKAS TO ILAC G13:08/2007

Please contact *RIQAS* at

Tel: +44 (0) 28 9445 4399

Fax: +44 (0) 28 9445 4398

E-Mail [mail@riqas.com](mailto:mail@riqas.com)

e-transfer [returns@riqas.com](mailto:returns@riqas.com)

RIQAS Scheme Co-ordinator: Stephen Doherty

RANDOX LABORATORIES LTD., Ardmore, Diamond Road, Crumlin, Co. Antrim, United Kingdom, BT29 4QY

Revised July 2010



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# INSTRUMENT CODES

328	77 Elektronika LabUMat	292	Biomerieux/Organon Coag-a-mate MAX	164	Human Humanlyte
271	77 Elektronika, Doc U Reader	293	Biomerieux/Organon Coag-a-mate MDA	321	Human Humanreader
270	77 Elektronika, Hand U Reader	291	Biomerieux/Organon Coag-a-mate MTX	431	Humastar 80
315	77 Elektronika, Lab U Reader	287	Biomerieux/Organon Coag-a-mate RA4	460	Humastar 180
224	Abaxis Piccolo	288	Biomerieux/Organon Coag-a-mate X2/2001	435	Humastar 300
458	Abaxis Vetscan	289	Biomerieux/Organon Coag-a-mate XC	478	Humastar 600
133	Abbott Aeroset	290	Biomerieux/Organon Coag-a-mate XM	118	Hybritech Tandem E
172	Abbott Architect c/ci Systems	428	Biorad Coda	119	Hybritech Tandem R
128	Abbott Architect i Systems	186	Biorad D-10	065	IL 143 / 243
100	Abbott Axsym	187	Biorad Diastat	066	IL 343
097	Abbott IMx	197	Biorad Micromat II	067	IL 543
142	Abbott i-STAT	496	Bio-Rad PR 3100 TSC Microplate Reader	068	IL 643
001	Abbott Spectrum/EPx/CCx	185	Biorad Variant I/II/Express/Turbo	410	IL 682
002	Abbott TDx	429	Biosite Triage Meter	069	IL 743
052	Abbott Vision	437	Biosystems A15	070	IL 943
003	Abbott VP	209	Biosystems A25	405	IL 1300series
173	ABX Pentra 400	276	Biosystems BTS Series	406	IL 1400series
493	ABX Pentra C200	056	Boehringer 4010/4020/4030	407	IL 1600series
136	ACE/spACE/NEXCT	230	BPC BioSed Global 300	408	IL 1700series
365	Acon U120	225	Centronic Eurolyser	409	IL GEM OPL
487	Advanced Instruments Osmometer 2020	051	Chempio 500	158	IL Gem Premier
489	Advanced Instruments Osmometer 3250	220	Chemwell automated analysers	024	IL Multistat III
471	Advanced Instr. Micro Osmometer 3300	451	Cholestech LDX	055	IL Phoenix
368	American Labor / Helena / Labitec CoaData	323	Chung-do Pharm. Multiscan/Anyscan 721	385	IL Synthesis
053	Ames Seralyzer	123	CIS ELISA 2	294	IL/Beckman ACL 100
272	AMP Urine strip reader USR-120	109	Clinicon	296	IL/Beckman ACL 200/300
273	AMP Urine strip reader USR-500	366	Clinotech H-100	295	IL/Beckman ACL 1000
275	AMS Autolab/Saba	482	Core Diagnostics Eko Twenty	329	IL/Beckman ACL 3000
184	AMS Liasys	375	Cormay Accent 300	480	IL/Beckman ACL 5000
440	AMS Nephys	467	Cornley AFT 300/500	297	IL/Beckman ACL 6000, 7000
455	AMS SAT 450	174	Crony Saturno 300/300 Plus	298	IL/Beckman ACL 8000,9000,10000
125	Analog oxygen electrode analyser	251	Cybow reader 100	299	IL/Beckman ACL Elite/Elite PRO
318	Analyticon Combiscan	009	DACOS	301	IL/Beckman ACL Futura/Advance
488	Arkray Aution Eleven AE-4020	248	Dara Urine Strip Reader	300	IL/Beckman ACL MCL2
497	Arkray Aution Max AX-4030	343	Diagon Dia-timer	302	IL/Beckman ACL TOP
257	Arkray Aution Max AX-4280	339	Dialab Dia-check	309	IL/Beckman/MLA Electra 700
247	Arkray Aution Mini	508	Dialab Strip Reader	310	IL/Beckman/MLA Electra 750
229	Arkray OM-6050	345	Dia-med CD series	311	IL/Beckman/MLA Electra 800
274	Arkray PocketChem PU-4210	417	Diamond Diagnostics ISE Lyte series	312	IL/Beckman/MLA Electra 900/900C
372	Arkray PocketChem UA PU-4010	213	Diasorin, Liaison	305	IL/Beckman/MLA Electra 1000C
324	Arkray, Diascreen	507	Diasys Star Dust MC15	306	IL/Beckman/MLA Electra 1400C
106	ASCA	503	Dirui CS-400/800	307	IL/Beckman/MLA Electra 1600C
004	Astra/Synchron AS	260	Dirui H series	308	IL/Beckman/MLA Electra 1800C
241	Atago Refractometer	190	Drew DSS/G15	170	ILab 300
217	Audit Diagnostics: Sapphire	193	Drew Hb-Gold	135	ILab 600 / 650 / Aries
348	Axis-Shield Thrombotrack	358	Dutch Diagnostics Uri-screen 500	049	ILab 900
013	Baker Encore	439	Edif Sphera	023	ILab Monarch
104	Beckman Access	502	Eiken US-3100R Plus	151	ILyte
042	Beckman Array	438	EKF Biosen C-line	249	Iris Systems
452	Beckman Coulter DU series	421	Electra Medical Elite	464	I.S.E. srl Echo/Echo Plus
103	Beckman Coulter AU400/600/640/2700/5400	214	Eppendorf EBIO	432	I.S.E. srl Miura
014	Beck/Coul AU500/800/1000/Demand/Eris/Reply	076	Eppendorf Elan	359	ITC Hemochron Jr
167	Beckman Coulter AU inst(non Olympus reag)	413	Eppendorf Flame Photometer	418	ITC IRMA Trupoint
195	Beckman DxC600/DxC800	506	Erba SmartLab	137	Jolly 100 series
196	Beckman Dxi800	258	Erba Uro-Dip Check	022	Kone Delta/Progress/Specific/Ultra
131	Beckman ELISE	202	Erba XL Series	082	Kone Microlyte
115	Beckman Immage	192	Erba-Chem EC-5/EC-7	138	Konelab 20/30/60
060	Beckman KLiNa	330	Erma Refractometer	490	Kontrolab Plus Lyte II
080	Beckman Labyte	412	Eschweiler Combiline	218	Labsystems FP-901M
113	Beckman LX 20/PRO/LXi725	177	Falcor 300 series / Targa	259	Leica TS400
035	Beckman Synchron CX3	134	Falcor 600 / Alcyon	457	Leica UNISTAT Bilirubinometer
045	Beckman Synchron CX4/5/7/9	314	Fisher Thromboscreen	456	Linear Chemicals - ARES
242	Becton Dickinson Turbi Time	470	Fiske Micro Osmometer 210	278	Linear Chemicals - DARA
338	Behnk Coagulator	215	FUJI DRI-CHEM 800	411	Linear Chemicals - HERA/LIDA
481	Behnk Elektronik Coagulometer CL4	465	FUJI DRI-CHEM 3500	355	Macherey-Nagel Uryxxon 200
303	Behnk Elektronik Thrombolyzer	442	Futura System ACF	252	Macherey-Nagel Uryxxon 300
351	Behnk Thrombostat	436	GBC Avanta AAS	367	Macherey-Nagel Uryxxon Relax
336	Behnk Thrombotimer	504	Gesan Chem 200/500	207	Maxmat PL
216	Biocare Biolyte	015	Gilford Instruments	416	Medica EasyBloodGas
500	Binding Site MININEPH Nephelometer	499	Goldsite Nephstar Nephelometer	157	Medica, Easylyte Calcium
353	Biochemical Systems Maplab	016	Greiner G250	176	Medica Easylyte Na/K/Cl/Li
171	Biocode Hycel Lisa 200	043	Greiner G300/400/450	386	Medica EasyStat
166	Biocode Hycel Lisa 300/500	212	Guernon Star (RAL)	189	Menarini/Adams HA8121/HA8140/HA8160
206	Biocode Hycel Lisa XS	349	Helena AC-4	156	Menarini Arkray Spotchem
369	Bio-Dynamics CA600	473	Hospitex EOS Bravo	237	Menarini Aution Jet
492	Bio-ksel 6000	434	Hospitex Screen Lyte	236	Menarini Aution Max
340	Bio-ksel Chrom 7	441	Hospitex Screen Master	235	Menarini Aution Micro
331	Bio-ksel Coag Chrom 3003	194	HP Agilent 1100	110	Menarini Spotlyte
341	Bio-ksel Coag K-3002 Optic	096	HPLC	327	Menarini Super Aution SA4250
445	Biomedica 1940 Plus	357	Human Combilyzer	126	Merck MEGA
073	Biomen Falcor	342	Human Humaclot Duo	111	Merck, Microlab
304	Biomerieux Option series	313	Human Humaclot Junior	344	Metrolab series
085	Biomerieux Vidas	165	Human, Autohumalyser 900	426	Microgenics MGC 240
253	Biomerieux Vikia	191	Human Humalyzer 2000/3000	105	Milton Roy, Spectronic

CONTINUED ON NEXT PAGE

# **INSTRUMENT CODES**

211	Mindray BS-200/300/400	098	Roche Cobas Core	010	Siemens/Dade ACA
376	Mindray UA66	226	Roche Cobas e411	011	Siemens/Dade Analyst
491	Minivolt Mono/Bico	007	Roche Cobas Fara	262	Siemens/Dade BCS/BCS-XP
279	Mission U120	382	Roche Cobas h 232	261	Siemens/Dade BCT
362	Mitsubishi Chemical Pathfast	008	Roche Cobas Mira	047	Siemens/Dade Behring Nephelometer
373	MTI, MT1C/MT4C	325	Roche Cobas u411	124	Siemens/Dade Behring Opus
485	Muller Super G	108	Roche Elecsys	228	Siemens/Dade Behring Stratus
083	Nova	086	Roche Enzymun	168	Siemens/Dade Behring Turbitimer
384	Nova Stat Profile CCX series	182	Roche GDx	178	Siemens/Dade Behring Viva
383	Nova Stat Profile pHOX series	017	Roche Hitachi 704/7050/705	012	Siemens/Dade Dimension
181	Nycocard Reader	018	Roche Hitachi 717/7150	423	Siemens/Dade Dimension Vista
371	Organon Tecnica Reader 530	019	Roche Hitachi 736/737/747	263	Siemens/Dade Fibrintimer/BFA/BFT/BFT II
378	Organics Mediscreen reader 720	044	Roche Hitachi 902/904/911/912/917	087	Siemens/DPC Coat-A-Count
089	Orion	057	Roche Integra	088	Siemens/DPC Immulite 1000
360	Orion Turbox	231	Roche Miditron Junior II	139	Siemens/DPC Immulite 2000
021	Ortho Vitros 250/350/500/700/950	245	Roche Miditron M	199	Siemens/DPC Immulite 2500
453	Ortho Vitros 5600 (Microslide)	160	Roche Modular D	122	Siemens/DPC IRMA Count
501	Ortho Vitros 5600 (Microtip/Microwell)	163	Roche Modular E170	363	Sinnova CL2000
204	Ortho Vitros 5.1 FS (MicroTip)	162	Roche Modular ISE	032	SMA 12/60, 6/60 or Plus
179	Ortho Vitros 5.1 FS (slide)	161	Roche Modular P	033	SMA II
020	Ortho Vitros DT60/DT60 II	475	Roche Stago ST2	034	SMAC
132	Ortho Vitros Eci	264	Roche Stago STA Compact/Compact CT	374	SmarTest Reader 720
094	Osmometer-Freezing Point Dep.	265	Roche Stago STA-R Evolution	377	Spinreact BioBas
095	Osmometer - Vapour Pressure	266	Roche Stago Start 4/8	486	Spinreact Spinlab 100/180/XL
155	Osmotech AVL OPTI	234	Roche Urilux-S	326	Standard Diagnostics Urometer 720
026	Parallel/Excel	239	Roche Unisys 1100	450	Starlyte III Analyzer
027	Paramax	232	Roche Unisys 1800/2400	322	Stat-fax analysers
090	Perkin-Elmer Double Beam Inst.	030	Saitron	079	Stratus Immunoassay Systems
463	Perkin Elmer ELAN DRC	381	Scientifica Clot 2S	286	Sysmex CA50
028	Perspective	433	SEAC FP-20 Flame Photometer	282	Sysmex CA500 series
203	Pharmacia ImmunoCAP 250/Unicap	448	SEAC Radim Clot 2S	281	Sysmex CA1000
319	Pliva Lachema Laura	462	SEAC Radim HeCo Plus	280	Sysmex CA1500
208	Pointe Scientific 180	120	Serono MAIA Clone	283	Sysmex CA5000
466	Precil C2000A	425	SFRI BSA 3000	284	Sysmex CA6000
414	Prestige 24i	422	SFRI ISE electrolyte series	285	Sysmex CA7000
180	Primus CLC385 / PDQ	227	Sherwood 926S	316	Sysmex UF-series
029	Prisma Instruments	031	Shimadzu	380	Tecan Sunrise
201	Radim Delta Nephelometer	238	Siemens Clinitek 50	419	Techno Medica Gastat
391	Radiometer ABL 5	256	Siemens Clinitek 100	154	Tecnolab
387	Radiometer ABL 500 series	364	Siemens Clinitek 200	337	Teco Coatron
388	Radiometer ABL 600 series	240	Siemens Clinitek 500	498	Teco Matrix
389	Radiometer ABL 700 series	317	Siemens Clinitek Advantus	320	Teco Uritek 720+
392	Radiometer ABL 77	233	Siemens Clinitek Atlas	354	Teco Uritek TC-101
393	Radiometer ABL 80	250	Siemens Clinitek Status	444	Teco Techrom IV plus
390	Radiometer ABL 800 series	078	Siemens/Bayer ACS 180	346	Tokra Medikal MT series
394	Radiometer ABL EML series	129	Siemens/Bayer ADVIA 1200/1650/1800/2400	494	Thermo Trace Ultra GC
071	Radiometer ABL FLM3	127	Siemens/Bayer ADVIA Centaur	246	Toshiba TBA 120
395	Radiometer ABL NPT series	198	Siemens/Bayer ADVIA IMS	117	Tosoh
350	RAL Autoclot	483	Siemens/Bayer Ascencia Elite	188	Tosoh HLC723/G7
333	RAL Clot 1	039	Siemens/Bayer Axon	356	Transasia Biomedical Erba Coag 2
332	RAL Clot SP	484	Siemens/Bayer Contour	361	Transasia Biomedical Erba Coag Uno
379	Randox evidence/investigator	037	Siemens/Bayer Chem 1	221	Transasia Biomedical XL300
169	Randox Daytona/Imola/Menarini F360/560	036	Siemens/Bayer DAX	267	Trinity/Sigma-Amelung AMAX
447	Randox Rx Monza	183	Siemens/Bayer DCA 2000	476	Trinity/Sigma-Amelung AMAX Desting
446	Rayto RT Series	099	Siemens/Bayer Immuno 1	268	Trinity/Sigma-Amelung KC1
050	Reflotron	400	Siemens/Bayer Rapidchem 744	269	Trinity/Sigma-Amelung KC4
200	Response Biomedical Ramp	396	Siemens/Bayer Rapidlab 238	277	URIT Uritest 300 / 500
370	Right Choice Reader	149	Siemens/Bayer Rapidlab 248	219	Vital Diagnostics Vitalon 400
461	Roche Accu-Chek	415	Siemens/Bayer Rapidlab 278	334	Vital Diagnostics/Electalab Turbiquick
505	Roche Accutrend	150	Siemens/Bayer Rapidlab 288	074	Vital Scientific-Vitatron SPS
402	Roche AVL COMPACT 1/2/3	148	Siemens/Bayer Rapidlab 348	075	Vitalab Eclipse
153	Roche AVL OMNI C / b121	398	Siemens/Bayer Rapidlab 1200 series	352	Vitalab Fibrin-1
401	Roche AVL OMNI S / b221	399	Siemens/Bayer Rapidpoint 400 series	159	Vitalab Flexor
404	Roche AVL 940 series	081	Siemens/Bayer/Chiron 600 Series	101	Vitalab Selectra Junior / E / XL
141	Roche AVL 980 series	046	Siemens/Bayer/Ciba 550 Express	102	Wako 30R
403	Roche AVL 990 series	061	Siemens/Bayer/Corning 400/405	116	Wallac DELFIA
130	Roche AVL 9100 series	062	Siemens/Bayer/Corning 480	223	Wallac Wizard
143	Roche Cardiac Reader	058	Siemens/Bayer/Corning 925/940	495	Waters Acquity LC/MS
347	Roche CoaguChek	063	Siemens/Bayer/Corning/EEL 435	474	Wiener Lab BT 3000 Plus/CB 350i
479	Roche Coasys Plus C	064	Siemens/Bayer/Corning/EEL 450	477	Wiener Lab Fibrintimer
205	Roche Cobas 6000, C501, E601	038	Siemens/Bayer/Tech. RA500/1000/XT/2000	243	YD Diagnostics Uriscan
006	Roche Cobas Bio	059	Siemens/Bayer/Technicon Opera	077	YSI Glucometer
222	Roche Cobas c 111	048	Siemens/Bayer/Technicon RA100/Assist		
472	Roche Cobas c311	107	Siemens/Bayer/Technicon RA50		

# REAGENT SUPPLIER CODES

126	77 Elektronika kft	195	Dia-med	177	Omeco
246	Abaxis	86	Diasorin	164	Omega Diagnostics
1	Abbott	59	DiaSys	233	Orasure
55	ABX	133	Diatech	150	Organon Technica
101	Accucare Lab-care	251	Diazyme Laboratories	136	Orgenics
92	Accurex Biomedical	48	Diffu Plate	49	Orion
110	Acon	220	Dima Biotech	28	Ortho-Clinical Diagnostics
263	Aesku Diagnostics	138	Dirui	214	Osmetech
234	Alfa Scientific Design	24	Dr Lange	12	Other Manufacturers
54	Alfa Wassermann	66	Drew Scientific	231	Pacific Biotech
268	Alpha Diagnostics	192	Dutch Diagnostics	182	Pacific Hemotasis
2	American Monitor	265	Eiken Chemical Co Ltd	202	Padtan Teb
124	Amerlab	245	EKF Diagnostic	108	Pars Azmun Co.
105	AMP Diagnostics	81	Elitech (Seppim)	149	Perkin Elmer
25	Analyticon	269	Emapol	32	Pharmacia Biosystems
103	Anamol Laboratories	179	Enison	106	Pinnacle Biotechnologies
125	Arkray	74	Erba	203	Plasmatec
239	Assel S.R.L	215	Eschweiler	157	Pliva Lachema
237	Audit Diagnostics	168	Exbio	80	Pointe Scientific
208	Avitex	267	Eureka srl	196	Premier Diagnostics
56	AVL	222	Firstsign/Unimed	91	Priman
117	Axis Shield	205	Fortress Diagnostics	62	Primus
3	Beckman	250	FUJIFILM Corporation	131	Prodia International
116	Becton Dickinson	79	Fumouze Diagnostics	85	QCA
174	Biocentric	104	Futura System	173	Quidel
219	Biognost	71	Fuxing Chang Zheng	185	R2 Diagnostics
65	Biokit	243	Gemini Diagnostica srl	73	Radim
184	Bio-ksel	53	Genzyme	213	Radiometer
190	Biolabo SA	270	Gesan Production Srl	13	Raichem
166	Bioline	262	Goldsite Diagnostics	84	RAL Gernon
89	Biomagheb	226	GPO	97	Ranbaxy Diagnostics
172	Biomar Diagnostic Systems	259	Greiner Diagnostics	14	Randox Laboratories Ltd.
22	Biomed	145	Grifols	141	Rapha Diagnostics
63	Biomedica	242	Hospitex Diagnostics	142	Reckon Diagnostics
139	Biomedica	183	Helena Laboratories	248	Renam Ltd
257	BioMedical Diagnostics	8	Human	72	Response Biomedical
221	Biomerica	77	Hycel	201	Right Choice Diagnostics
4	bioMerieux	204	Hypoguard	15	Roche Diagnostics
37	Bio-Rad	154	Iberlab	112	S A Scientific
254	Biorex Diagnostics	44	ICN Pharmaceuticals	88	Sclavo
127	Biosigma	35	Incstar	42	Sentinel
206	Biosite Inc.	197	IND Diagnostic	216	SFRI
31	Biostat	9	In-House Reagents	58	SGM
45	Biosystems	115	InLab	207	Shanghai Changdao Biotech
240	Biotechnica	10	Instrument Laboratories (IL)	17	Siemens/Bayer/Technicon
119	Biotrade	229	InTec Products	52	Siemens/Dade Behring
5	Biotrol	162	International Technidyne Corporation	40	Siemens/DPC
212	BMC Chemstrip	167	Invelab	152	Siemens/Sysmex
181	BOR-POL	120	Inverness Medical / Med-ox	16	Sigma
46	Cambridge Life Sciences	128	Iris Diagnostics	102	SM Diagnostics
121	Cenegenics	198	Isotherm	143	SmarTest Diagnostics
100	Centronic	159	Ivagen	96	Span Diagnostics
26	Certiman	27	Kone	75	Spinreact
209	Changchun Yida	51	Kyowa Medex	227	Stamar
98	Chema Diagnostica	230	Lab Master Advance	67	Stanbio
241	Chematil	180	Labodia	135	Standard Diagnostics Inc
93	Chemelex	261	Labor Diagnostika Nord GmbH	232	Surescreen Diagnostics Ltd.
146	Chromogenix	176	Labotron	39	Synermed
61	Chromsystems	113	Labtest	252	Syrbio
129	Chronolab	70	Leadman	41	Systemate
170	Chung-do Pharmaceuticals	224	Life Sign	29	Syva
132	Clinitek	148	Linear Chemicals	191	Technoclone
228	Commercial Science	137	Machery-Nagel	194	Technology-Standard
160	Core Diagnostics	78	Maxmat	109	Teco Diagnostics
187	Corgenix	90	Medica	33	The Binding Site Ltd.
178	Cormay	11	Medical Analysis Systems Inc.	76	Thermo Fisher Scientific
21	Corning	253	Medichem Diagnostica	68	TOSOH
255	Cornley Hi-Tech	130	Medilab	18	Trace Scientific
153	Cortez Diagnostics	223	Medtox Diagnostics	99	Transasia Biomedicals
236	Cozart	158	Megah Tech Sdn	144	Trinity Biotech/Biopool/DPC Medlab
169	Cromates	47	Menarini	151	True Bioscience
199	CTK Biotech	20	Merck	188	Tulip
260	Cypress Diagnostics	69	Microgenics	161	Ultimed
50	Daiichi Pure Chemicals	64	Microline	211	United Biotech
107	Dako	83	Mindray	0	Unknown
36	DCL	200	Mitsubishi Chemical	147	Uritest Medical
123	Denka Seiken	38	Monitor Bioscience	60	Valtek Diagnostics
134	DFI - Cybow	256	Monobind Inc.	94	Vector-Best
244	Diacron	140	Morwell Diagnostics	111	Veda Lab
266	DIAGAM	258	Muller	165	Vinova Pharma
235	Diagnostic Reagents Inc.	210	NAL24	95	Vital Diagnostics
82	Diagnostica Stago	271	New Scientific Company Srl	19	Wako
272	Diagnosticum ZRT	171	Nicholas Piramal	114	Wama Diagnostica
155	Diagnostest	193	Nobis Diagnostica	30	Whale Scientific
189	Diagon	238	Nova Biomedical	43	Wiener Lab
247	DiaGlobe	122	Nova Century Scientific	175	Wipro Biomed
156	Dialab	57	Nycomed	163	Wondfo
264	Diamond Diagnostics	34	Olympus	118	YD Diagnostics / Biosys

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

### ACID PHOSPHATASE, PROSTATIC U/I

CODE	METHOD
APP2	<input type="checkbox"/> Naphthyl phosphate substrate, end point
APP1	<input type="checkbox"/> Naphthyl phosphate substrate, kinetic
APP6	<input type="checkbox"/> Naphthyl phosphate with pentane diol
APP3	<input type="checkbox"/> p-Nitrophenyl phosphate substrate
APP4	<input type="checkbox"/> Thymolphthalein phosphate substrate
APPDC	<input type="checkbox"/> Ortho Vitros Microslide Systems Vitros Slide Generation Number <input type="text"/> <input type="text"/>
APPO	<input type="checkbox"/> Other methods, please specify on enrolment document
INSTRUMENT CODE	<input type="text"/>
REAGENT CODE	<input type="text"/>
RESULTS REPORTED AT	25°C <input type="checkbox"/> 30°C <input type="checkbox"/> 37°C <input type="checkbox"/>
OTHER UNITS, SPECIFY	<input type="text"/>

### ACID PHOSPHATASE, TOTAL U/I

CODE	METHOD
ACP2	<input type="checkbox"/> Naphthyl phosphate substrate, end point
ACP1	<input type="checkbox"/> Naphthyl phosphate substrate, kinetic
ACP6	<input type="checkbox"/> Naphthyl phosphate with pentane diol
ACP3	<input type="checkbox"/> p-Nitrophenyl phosphate substrate
ACP4	<input type="checkbox"/> Thymolphthalein phosphate substrate
ACPDC	<input type="checkbox"/> Ortho Vitros Microslide Systems Vitros Slide Generation Number <input type="text"/> <input type="text"/>
ACP5	<input type="checkbox"/> Other methods, please specify on enrolment document
INSTRUMENT CODE	<input type="text"/>
REAGENT CODE	<input type="text"/>
RESULTS REPORTED AT	25°C <input type="checkbox"/> 30°C <input type="checkbox"/> 37°C <input type="checkbox"/>
OTHER UNITS, SPECIFY	<input type="text"/>

### ALBUMIN g/l

CODE	METHOD
ALB1	<input type="checkbox"/> Bromocresol Green (BCG)
ALB2	<input type="checkbox"/> Bromocresol Purple (BCP)
ALBNP	<input type="checkbox"/> Nephelometric Assays
ALBT	<input type="checkbox"/> Turbidimetric Assays
ALBDC	<input type="checkbox"/> Ortho Vitros Microslide Systems
ALBDT	<input type="checkbox"/> Vitros DT60/DT60 II/DTSC II Vitros Slide Generation Number <input type="text"/> <input type="text"/>
ALBOD	<input type="checkbox"/> Other Dry Chemistry
ALBO	<input type="checkbox"/> Other methods, please specify on enrolment document
INSTRUMENT CODE	<input type="text"/>
REAGENT CODE	<input type="text"/>
OTHER UNITS, SPECIFY	<input type="text"/>

### ALKALINE PHOSPHATASE U/I

CODE	METHOD
APNON	<input type="checkbox"/> AMP, non-optimised
APIF	<input type="checkbox"/> AMP, optimised to IFCC
APNS	<input type="checkbox"/> AMP, optimised to NVKC/SFBC
APRED	<input type="checkbox"/> AMP, reduced interference
APINT	<input type="checkbox"/> Roche Integra, AMP buffer
APDB	<input type="checkbox"/> Siemens/Dade Dimension, AMP buffer
APAMP	<input type="checkbox"/> Other AMP kits
APDEA	<input type="checkbox"/> Diethanolamine buffer, DEA
APTRI	<input type="checkbox"/> Tris/carbonate buffer
APDC	<input type="checkbox"/> Ortho Vitros Microslide Systems
APDT	<input type="checkbox"/> Vitros DT60/DT60 II/DTSC II Vitros Slide Generation Number <input type="text"/> <input type="text"/>
APOD	<input type="checkbox"/> Other Dry Chemistry
APO	<input type="checkbox"/> Other methods, please specify on enrolment document
INSTRUMENT CODE	<input type="text"/>
REAGENT CODE	<input type="text"/>
RESULTS REPORTED AT	25°C <input type="checkbox"/> 30°C <input type="checkbox"/> 37°C <input type="checkbox"/>
OTHER UNITS, SPECIFY	<input type="text"/>

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

### ALANINE TRANSAMINASE, ALT U/I

CODE	METHOD
ALTC	<input type="checkbox"/> Colorimetric
ALTP	<input type="checkbox"/> Phosphate buffer, DGKC
ALTDDB	<input type="checkbox"/> Siemens/Dade standard non IFCC correlated
ALTNP	<input type="checkbox"/> Tris buffer without pyridoxal - 5 - phosphate, IFCC/SFBC
ALTIF	<input type="checkbox"/> Tris buffer with pyridoxal - 5 - phosphate, IFCC/SFBC
ALTP5	<input type="checkbox"/> Tris buffer with pyridoxal - 5 - phosphate, NVKC
ALTT	<input type="checkbox"/> Tris buffer, SCE
ALTDC	<input type="checkbox"/> Ortho Vitros Microslide Systems
ALTDT	<input type="checkbox"/> Vitros DT60/DT60 II/DTSC II
	<input type="checkbox"/> Vitros Slide Generation Number <input type="text"/> <input type="text"/>
ALTOD	<input type="checkbox"/> Other Dry Chemistry

INSTRUMENT CODE

REAGENT CODE

RESULTS REPORTED AT 25°C  30°C  37°C

OTHER UNITS, SPECIFY

### AMYLASE, PANCREATIC U/I

CODE	METHOD
PAMBK	<input type="checkbox"/> Beckman Synchron CX/LXi/DxC
PAM2	<input type="checkbox"/> Roche & Randox Liquid Stable pNPG7
PAM1	<input type="checkbox"/> Immunoinhibition, EPS substrate
PAMO	<input type="checkbox"/> Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

RESULTS REPORTED AT 25°C  30°C  37°C

OTHER UNITS, SPECIFY

### AMYLASE, TOTAL U/I

CODE	METHOD
<b>BLOCKED MALTOHEPTAOSIDE SUBSTRATES</b>	
AM1C	<input type="checkbox"/> bioMerieux
AM1D	<input type="checkbox"/> Biotrol
AM1P	<input type="checkbox"/> DCL
AM1F	<input type="checkbox"/> Human
AM1G	<input type="checkbox"/> Instrumentation Laboratory (IL)
AM1H	<input type="checkbox"/> Medical Analysis Systems (MAS)
AM1S	<input type="checkbox"/> Olympus
AM1N	<input type="checkbox"/> Other blocked Maltoheptaoside substrates
AM1K	<input type="checkbox"/> RAchem
AM1I	<input type="checkbox"/> Randox - Benzylidene blocked pNPG7
AM1J	<input type="checkbox"/> Randox - Ethylidene blocked pNPG7
AM1Q	<input type="checkbox"/> Randox Liquid stable pNPG7
AM1R	<input type="checkbox"/> Roche liquid stable pNPG7
AM1B	<input type="checkbox"/> Siemens/Bayer
AM1L	<input type="checkbox"/> Sigma
AM1M	<input type="checkbox"/> Trace
<b>NON-BLOCKED pNP MALTOHEPTAOSIDE SUBSTRATES</b>	
AM2B	<input type="checkbox"/> Other non-blocked pNPG7
<b>MALTOTETRAOSE SUBSTRATES</b>	
AM3A	<input type="checkbox"/> Beckman Synchron CX4/CX5/CX7
AM3B	<input type="checkbox"/> Other Maltotetraose substrates
<b>pNP MALTOPENTA/HEXA OSIDE SUBSTRATES</b>	
AM4A	<input type="checkbox"/> Siemens/Bayer
AM4B	<input type="checkbox"/> Siemens/Dade
<b>OTHER SUBSTRATES</b>	
AM8F	<input type="checkbox"/> 2-chloro-pNPG3 - bioMerieux
AM8E	<input type="checkbox"/> 2-chloro-pNPG3 - Siemens/Dade Behring
AM8G	<input type="checkbox"/> 2-chloro-pNPG3 - Other
AM8B	<input type="checkbox"/> 2-chloro-pNP-linked substrate - Siemens/Bayer
AM8C	<input type="checkbox"/> 2-chloro-pNP-linked substrate - Roche Integra
AM8D	<input type="checkbox"/> 2-chloro-pNP-linked substrate - Other Roche
AM8A	<input type="checkbox"/> 2-chloro-pNP-linked substrate - Other
AM5A	<input type="checkbox"/> Beckman Synchron AS - dyed amylopectin
AM7A	<input type="checkbox"/> Phadebas Tablet
AM10	<input type="checkbox"/> pNP Maltotrioside substrates
AM6A	<input type="checkbox"/> Saccharogenic methods

CONTINUED ON NEXT PAGE

# GENERAL CLINICAL CHEMISTRY METHOD QUESTIONNAIRE

## AMYLASE, TOTAL U/I (Continued)

CODE METHOD

### OTHER SUBSTRATES (Continued)

- AYDC  Ortho Vitros Microslide Systems  
AYDT  Vitros DT60/DT60 II  
Vitros Slide Generation Number   
AYOD  Other Dry Chemistry  
AM9A  Other methods, please specify on enrolment document

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

## ASPARTATE TRANSAMINASE, AST U/I

CODE METHOD

- ASTC  Colorimetric  
ASTP  Phosphate buffer, DGKC  
ASTDB  Siemens/Dade standard non IFCC correlated  
ASTIF  Tris buffer with pyridoxal - 5 - phosphate, IFCC/SFBC  
ASTP5  Tris buffer with pyridoxal - 5 - phosphate, NVKC  
ASTNP  Tris buffer without pyridoxal - 5 - phosphate, IFCC/SFBC  
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

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  
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  
BIOM  Other methods, please specify on enrolment document

INSTRUMENT CODE   
REAGENT CODE   
OTHER UNITS, SPECIFY

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

### BILIRUBIN, DIRECT $\mu\text{mol/l}$

CODE	METHOD
BDDI	<input type="checkbox"/> Diazo with Dichloroaniline
BDSA	<input type="checkbox"/> Diazo with Sulphanilic Acid
BDDD	<input type="checkbox"/> Dichlorophenyl Diazonium
BDVER	<input type="checkbox"/> Oxidation to Biliverdin
BDRJG	<input type="checkbox"/> Roche JG factored
BDDU	<input type="checkbox"/> Ortho Vitros Microslide Systems conjugated from BUBC
BDTB	<input type="checkbox"/> Ortho Vitros Microslide Systems Total Bil-BU (from BUBC) Vitros Slide Generation Number <input type="text"/> <input type="text"/>
BDOD	<input type="checkbox"/> Other Dry Chemistry
BDO	<input type="checkbox"/> Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### BILIRUBIN, TOTAL $\mu\text{mol/l}$

CODE	METHOD
BIDI	<input type="checkbox"/> Diazo with Dichloroaniline
BISA	<input type="checkbox"/> Diazo with Sulphanilic Acid
BIION	<input type="checkbox"/> Diazonium ion
BDD	<input type="checkbox"/> Dichlorophenyl Diazonium
BINBD	<input type="checkbox"/> Nitrobenzenediazonium Salt
BIVER	<input type="checkbox"/> Oxidation to Biliverdin
BICAL	<input type="checkbox"/> Roche calibrator (US set point only)
BIBL	<input type="checkbox"/> Ortho Vitros Microslide Systems Total Bil
BIBU	<input type="checkbox"/> Ortho Vitros Microslide Systems Total BUBC
BIBT	<input type="checkbox"/> Vitros DT60/DT60 II Total Bil Vitros Slide Generation Number <input type="text"/> <input type="text"/>
BIOD	<input type="checkbox"/> Other Dry Chemistry
BIO	<input type="checkbox"/> Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### CALCIUM $\text{mmol/l}$

CODE	METHOD
CAZO	<input type="checkbox"/> Arsenazo
CAAA	<input type="checkbox"/> Atomic absorption
CACPC	<input type="checkbox"/> Cresolphthalein complexone
CAISE	<input type="checkbox"/> Ion selective electrode
CAMB	<input type="checkbox"/> Methylthymol blue
CADC	<input type="checkbox"/> Ortho Vitros Microslide Systems
CADT	<input type="checkbox"/> Vitros DT60/DT60 II/DTSC II Vitros Slide Generation Number <input type="text"/> <input type="text"/>
CAOD	<input type="checkbox"/> Other Dry Chemistry
CAO	<input type="checkbox"/> Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### CALCIUM, IONISED $\text{mmol/l}$

CODE	METHOD
CIISE	<input type="checkbox"/> Ion Selective Electrode - ISE
CIIO	<input type="checkbox"/> Other methods (non calculated)

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

Please note that Ionised Calcium results should not be pH adjusted

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

### CHOLINESTERASE (Pilot) mmol/l

- | CODE   | METHOD   |
|--------|--|
| CHECBC | <input type="checkbox"/> Colorimetric - Benzoylcholine   |
| CHECBT | <input type="checkbox"/> Colorimetric - Butyrylthiocholine   |
| CHEDC  | <input type="checkbox"/> Ortho Vitros Microslide Systems<br>Vitros Slide Generation Number <input type="text"/> <input type="text"/> |
| CHEO   | <input type="checkbox"/> 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  |
|-------|---|
| CLCOL | <input type="checkbox"/> Colorimetric   |
| CLCOU | <input type="checkbox"/> Coulometric  |
| CLSED | <input type="checkbox"/> Ion Selective Electrode, direct  |
| CLISE | <input type="checkbox"/> Ion Selective Electrode, indirect  |
| CLTIT | <input type="checkbox"/> Titrimetric  |
| CLDC  | <input type="checkbox"/> Ortho Vitros Microslide Systems  |
| CLDT  | <input type="checkbox"/> Vitros DT60/DT60 II/DTE II<br>Vitros Slide Generation Number <input type="text"/> <input type="text"/> |
| CLOD  | <input type="checkbox"/> Other Dry Chemistry  |
| CLO   | <input type="checkbox"/> Other methods, please specify on enrolment document  |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### CHOLESTEROL mmol/l

- | CODE  | METHOD   |
|-------|--|
| CHOL  | <input type="checkbox"/> Cholesterol Oxidase   |
| CHODB | <input type="checkbox"/> Siemens/Dade Behring reagents   |
| CHODC | <input type="checkbox"/> Ortho Vitros Microslide Systems   |
| CHODT | <input type="checkbox"/> Vitros DT60/DT60 II<br>Vitros Slide Generation Number <input type="text"/> <input type="text"/> |
| CHOOD | <input type="checkbox"/> Other Dry Chemistry   |
| CHOLO | <input type="checkbox"/> Other methods, please specify on enrolment document   |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### CREATINE KINASE, TOTAL U/l

- | CODE  | METHOD   |
|-------|--|
| CKTD  | <input type="checkbox"/> Dithioerythritol (DTE)  |
| CKDIF | <input type="checkbox"/> Dithioerythritol (DTE) IFCC correlated  |
| CKTM  | <input type="checkbox"/> Monothioglycerol  |
| CKIFF | <input type="checkbox"/> CK-NAC (IFCC)   |
| CKACT | <input type="checkbox"/> CK-NAC serum start (DGKC)   |
| CKNAC | <input type="checkbox"/> CK-NAC substrate start (DGKC)   |
| CKDC  | <input type="checkbox"/> Ortho Vitros Microslide Systems   |
| CKDT  | <input type="checkbox"/> Vitros DT60/DT60 II/DTSC II<br>Vitros Slide Generation Number <input type="text"/> <input type="text"/> |
| CKOD  | <input type="checkbox"/> Other Dry Chemistry   |
| CKO   | <input type="checkbox"/> Other methods, please specify on enrolment document   |

INSTRUMENT CODE

REAGENT CODE

RESULTS REPORTED AT 25°C  30°C  37°C

OTHER UNITS, SPECIFY

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

### COPPER $\mu\text{mol/l}$

CODE	METHOD
CUAA	<input type="checkbox"/> Atomic absorption
CUCOL	<input type="checkbox"/> Colorimetric
CUMS	<input type="checkbox"/> Mass Spectrometry
CUO	<input type="checkbox"/> Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### CREATININE $\mu\text{mol/l}$

CODE	METHOD
CREAP	<input type="checkbox"/> Alkaline picrate without deproteinisation
CRDEP	<input type="checkbox"/> Alkaline picrate with deproteinisation
CRPAP	<input type="checkbox"/> Creatinine PAP method
CREUV	<input type="checkbox"/> Enzymatic UV method
CRIDM	<input type="checkbox"/> IDMS traceable
CRERB	<input type="checkbox"/> Jaffe rate blanked
CREJC	<input type="checkbox"/> Jaffe rate blanked comp. for serum (-18 $\mu\text{mol/l}$ )
CRERC	<input type="checkbox"/> Jaffe rate blanked compensated (subtract 26 $\mu\text{mol/l}$ )
CRECP	<input type="checkbox"/> Roche Creatinine Plus
CREDD	<input type="checkbox"/> Ortho Vitros Microslide Double Slide
CREDC	<input type="checkbox"/> Ortho Vitros Microslide Single Slide
CREDT	<input type="checkbox"/> Vitros DT60/DT60 II/DTSC II
CREID	<input type="checkbox"/> Vitros, IDMS traceable
	Vitros Slide Generation Number <input type="text"/>
CREOD	<input type="checkbox"/> Other Dry Chemistry
CREAO	<input type="checkbox"/> Other enzymatic methods

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### D-3-HYDROXYBUTYRATE $\text{mmol/l}$

CODE	METHOD
D3HRD	<input type="checkbox"/> Randox - Tris buffer 100 $\text{mmol}$ pH 8.5
D3H0	<input type="checkbox"/> Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### GAMMA GLUTAMYL TRANSFERASE, GGT U/l

CODE	METHOD
GGTCL	<input type="checkbox"/> DCL gamma glutamyl-3-carboxy-4-nitroanilide
GGTCN	<input type="checkbox"/> Gamma glutamyl-3-carboxy-4-nitroanilide
GGTIF	<input type="checkbox"/> Gamma glutamyl-3-carboxy-4-nitroanilide (IFCC)
GGTN	<input type="checkbox"/> Gamma glutamyl-4-nitroanilide
GGTDB	<input type="checkbox"/> Siemens/Dade standard non IFCC correlated
GGTDC	<input type="checkbox"/> Ortho Vitros Microslide Systems
GGTDT	<input type="checkbox"/> Vitros DT60/DT60 II/DTSC II
	Vitros Slide Generation Number <input type="text"/>
GGTOD	<input type="checkbox"/> Other Dry Chemistry
GGTO	<input type="checkbox"/> 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	<input type="checkbox"/> $\alpha$ -oxoglutarate Triethanolamine buffer 50 $\text{mmol/l}$
GLDDC	<input type="checkbox"/> Ortho Vitros Microslide Systems
	Vitros Slide Generation Number <input type="text"/>
GLDO	<input type="checkbox"/> Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

RESULTS REPORTED AT 25°C  30°C  37°C

OTHER UNITS, SPECIFY

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

### GLUCOSE mmol/l

- | CODE  | METHOD   |
|-------|--|
| GLUDH | <input type="checkbox"/> Glucose dehydrogenase   |
| GLUOX | <input type="checkbox"/> Glucose oxidase   |
| GLBEK | <input type="checkbox"/> GOD/02-Beckman method   |
| GLUHX | <input type="checkbox"/> Hexokinase  |
| GLUOE | <input type="checkbox"/> Oxygen electrode  |
| GLDC  | <input type="checkbox"/> Ortho Vitros Microslide Systems   |
| GLUDT | <input type="checkbox"/> Vitros DT60/DT60 II<br>Vitros Slide Generation Number <input type="text"/> <input type="text"/> |
| GLUOD | <input type="checkbox"/> Other Dry Chemistry   |
| GLUO  | <input type="checkbox"/> Other methods, please specify on enrolment document   |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### HYDROXYBUTYRATE DEHYDROGENASE U/l

- | CODE  | METHOD   |
|-------|--|
| HBDH2 | <input type="checkbox"/> Oxobutyrate < 10 mmol/l   |
| HBDH1 | <input type="checkbox"/> Oxobutyrate > 10mmol/l  |
| HBDDC | <input type="checkbox"/> Ortho Vitros Microslide Systems<br>Vitros Slide Generation Number <input type="text"/> <input type="text"/> |
| HBDHO | <input type="checkbox"/> 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  |
|-----------------------|---|
| <b>DIRECT METHODS</b> |   |
| HDR3                  | <input type="checkbox"/> Direct HDL, Roche 3rd gen.   |
| HDLUL                 | <input type="checkbox"/> HDL, Ultra   |
| HDL10                 | <input type="checkbox"/> Immunoseparation   |
| HDL11                 | <input type="checkbox"/> PEGME - Kyowa  |
| HDL9                  | <input type="checkbox"/> PPD (Polymer/Polyanion detergent) - Daiichi  |
| HDL12                 | <input type="checkbox"/> Clearance method   |
| HDLDP                 | <input type="checkbox"/> Vitros dHDL, PTA/MgCl <sub>2</sub> direct precip.  |
| HDLMT                 | <input type="checkbox"/> Vitros 5.1 FS Microtip assay   |
| HDVIM                 | <input type="checkbox"/> Vitros, Magnetic HDL<br>Vitros Slide Generation Number <input type="text"/> <input type="text"/> |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### IRON µmol/l

- | CODE | METHOD   |
|------|--|
| FE1  | <input type="checkbox"/> Colorimetric with precipitation   |
| FE2  | <input type="checkbox"/> Colorimetric without precipitation  |
| FEDC | <input type="checkbox"/> Ortho Vitros Microslide Systems   |
| FEDT | <input type="checkbox"/> Vitros DT60/DT60 II/DTSC II<br>Vitros Slide Generation Number <input type="text"/> <input type="text"/> |
| FEOD | <input type="checkbox"/> Other Dry Chemistry   |
| FEO1 | <input type="checkbox"/> Other methods, please specify on enrolment document   |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### LACTATE (Pilot) mmol/l

- | CODE   | METHOD   |
|--------|--|
| LACCLO | <input type="checkbox"/> Colorimetric - Lactate oxidase  |
| LACDC  | <input type="checkbox"/> Ortho Vitros MicroSlide Systems |
| LACEE  | <input type="checkbox"/> Enzymatic Electrode             |
| LACISE | <input type="checkbox"/> Ion Selective Electrode         |
| LACOD  | <input type="checkbox"/> Other Dry Chemistry             |
| LACUV  | <input type="checkbox"/> UV - LDH                        |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

### LACTATE DEHYDROGENASE, LD U/I

#### CODE METHOD

##### LACTATE TO PYRUVATE METHODS

- LDIF  L to P, IFCC  
LDLPR  L to P, Roche  
LDDB  L to P Siemens/Dade, non-IFCC  
LDLP  Other Lactate to Pyruvate methods

##### PYRUVATE TO LACTATE METHODS

- LDPL2  P to L German methods  
LDPL1  P to L Scandinavian & Dutch methods  
LDPL3  P to L SFBC  
LDPL4  Pyruvate 1.4 mM - Beckman LD-P

##### DRY CHEMISTRY

- LDDC  Ortho Vitros Microslide Systems  
LDDT  Vitros DT60/DT60 II/DTSC II  
Vitros Slide Generation Number    
LDOD  Other Dry Chemistry

INSTRUMENT CODE

REAGENT CODE

RESULTS REPORTED AT 25°C  30°C  37°C

OTHER UNITS, SPECIFY

### LIPASE U/I

#### CODE METHOD

- LIP10  Colorimetric, Randox  
LIP6  Colorimetric, Roche  
LIP5  Colorimetric, Siemens/Dade Dimension (LIP kit)  
LIP5A  Colorimetric, Siemens/Dade 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

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  
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  
LIO  Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

### MAGNESIUM mmol/l

- | CODE  | METHOD   |
|-------|--|
| MGAZO | <input type="checkbox"/> Arsenazo  |
| MGAA  | <input type="checkbox"/> Atomic absorption                                   |
| MGCA  | <input type="checkbox"/> Calmagite   |
| MGCP  | <input type="checkbox"/> Chlorophosphonazo III                               |
| MGMB  | <input type="checkbox"/> Methylthymol blue                                   |
| MGXY  | <input type="checkbox"/> Xylidyl Blue  |
| MAGDC | <input type="checkbox"/> Ortho Vitros Microslide Systems                     |
| MGDT  | <input type="checkbox"/> Vitros DT60/DT60 II                                 |
|       | Vitros Slide Generation Number <input type="text"/> <input type="text"/>     |
| MAGOD | <input type="checkbox"/> Other Dry Chemistry                                 |
| MGMD  | <input type="checkbox"/> Other magnesium dyes                                |
| MGO   | <input type="checkbox"/> Other methods, please specify on enrolment document |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### NON-ESTERIFIED FATTY ACIDS (NEFA) mmol/l (PILOT)

- | CODE   | METHOD   |
|--------|--|
| NFACS  | <input type="checkbox"/> ACS-ACOD-MEHA Method                  |
| NFACSM | <input type="checkbox"/> ACS-ACOD-MEHA Method (inc. Maleimide) |
| NFCOL  | <input type="checkbox"/> Colorimetric Endpoint                 |
| NFGC   | <input type="checkbox"/> GC/MS                                 |
| NFHPL  | <input type="checkbox"/> HPLC                                  |
| NFMIC  | <input type="checkbox"/> Micro Method - FACL 50                |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### OSMOLALITY mOsm/Kg

- | CODE  | METHOD   |
|-------|--|
| OSC   | <input type="checkbox"/> Calculated                |
| OSFPD | <input type="checkbox"/> Freezing point depression |
| OSVP  | <input type="checkbox"/> Vapour pressure           |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### PHOSPHATE, INORGANIC mmol/l

- | CODE  | METHOD   |
|-------|--|
| PHBK  | <input type="checkbox"/> Beckman PHOSm kit (365nm)                       |
| PHENZ | <input type="checkbox"/> Phosphomolybdate enzymatic                      |
| PHMD  | <input type="checkbox"/> Phosphomolybdate UV                             |
| PHDC  | <input type="checkbox"/> Ortho Vitros Microslide Systems                 |
| PHDT  | <input type="checkbox"/> Vitros DT60/DT60 II/DTSC II                     |
|       | Vitros Slide Generation Number <input type="text"/> <input type="text"/> |
| PHOD  | <input type="checkbox"/> Other Dry Chemistry                             |
| PHOP  | <input type="checkbox"/> Other methods, no protein ppt, please specify   |
| PHOPT | <input type="checkbox"/> Other methods, with protein ppt, please specify |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### POTASSIUM mmol/l

- | CODE  | METHOD   |
|-------|--|
| KCHR  | <input type="checkbox"/> Chromolyte  |
| KEN   | <input type="checkbox"/> Enzymatic   |
| KFP   | <input type="checkbox"/> Flame photometry                                    |
| KISE  | <input type="checkbox"/> Ion Selective Electrode method - direct             |
| KISE1 | <input type="checkbox"/> Ion Selective Electrode method - indirect           |
| KOF   | <input type="checkbox"/> Optical Fluorescence                                |
| KDC   | <input type="checkbox"/> Ortho Vitros Microslide Systems                     |
| KDT   | <input type="checkbox"/> Vitros DT60/DT60 II/DTE II                          |
|       | Vitros Slide Generation Number <input type="text"/> <input type="text"/>     |
| KOD   | <input type="checkbox"/> Other Dry Chemistry                                 |
| KOM   | <input type="checkbox"/> Other methods, please specify on enrolment document |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

### PROTEIN, TOTAL g/l

- | CODE | METHOD   |
|------|--|
| PRCX | <input type="checkbox"/> Biuret reaction, CX4/CX5/CX7                        |
| PREP | <input type="checkbox"/> Biuret reaction, end point                          |
| PRKE | <input type="checkbox"/> Biuret reaction, kinetic                            |
| PRDC | <input type="checkbox"/> Ortho Vitros Microslide Systems                     |
| PRDT | <input type="checkbox"/> Vitros DT60/DT60 II                                 |
|      | Vitros Slide Generation Number <input type="text"/> <input type="text"/>     |
| PROD | <input type="checkbox"/> Other Dry Chemistry                                 |
| PRO  | <input type="checkbox"/> Other methods, please specify on enrolment document |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### PSA, TOTAL µg/l

- | CODE  | METHOD   |
|-------|--|
| PSA31 | <input type="checkbox"/> Abbott Architect                                    |
| PSA18 | <input type="checkbox"/> Abbott AxSYM - monoclonal                           |
| PSA15 | <input type="checkbox"/> Abbott AxSYM - polyclonal                           |
| PSA21 | <input type="checkbox"/> Abbott IMx - monoclonal                             |
| PSA1  | <input type="checkbox"/> Abbott IMx - polyclonal                             |
| PSA26 | <input type="checkbox"/> Beckman Access Hybritech TPSA                       |
| PSA36 | <input type="checkbox"/> Beckman Coulter AU 3000i                            |
| PSA20 | <input type="checkbox"/> bioMérieux VIDAS TPSA                               |
| PSA2  | <input type="checkbox"/> CIS ELISA 2   |
| PSA37 | <input type="checkbox"/> ELISA   |
| PSA32 | <input type="checkbox"/> Ortho Vitros, 3600/5600/ECi                         |
| PSA35 | <input type="checkbox"/> Roche Cobas 6000                                    |
| PSA6  | <input type="checkbox"/> Roche Cobas Core EIA                                |
| PSA34 | <input type="checkbox"/> Roche Cobas e411                                    |
| PSA19 | <input type="checkbox"/> Roche Elecsys, Modular E170                         |
| PSA16 | <input type="checkbox"/> Roche Enzymun                                       |
| PSA7  | <input type="checkbox"/> Sero MAIA Clone                                     |
| PSA17 | <input type="checkbox"/> Siemens/Bayer ACS 180 - PSA II kit                  |
| PSA27 | <input type="checkbox"/> Siemens/Bayer ACS180 (equimolar)                    |
| PSA24 | <input type="checkbox"/> Siemens/Bayer ADVIA Centaur                         |
| PSA28 | <input type="checkbox"/> Siemens/Bayer ADVIA Centaur (equimolar)             |
| PSA14 | <input type="checkbox"/> Siemens/Bayer Immuno 1                              |
| PSA22 | <input type="checkbox"/> Siemens/Dade Behring Opus                           |
| PSA33 | <input type="checkbox"/> Siemens/Dade, Dimension                             |
| PSA29 | <input type="checkbox"/> Siemens/DPC Immulite 2000, 1st Generation           |
| PSA30 | <input type="checkbox"/> Siemens/DPC Immulite 2000, 3rd Generation           |
| PSA13 | <input type="checkbox"/> Siemens/DPC Immulite, 1st generation                |
| PSA25 | <input type="checkbox"/> Siemens/DPC Immulite, 3rd Generation                |
| PSA3  | <input type="checkbox"/> Siemens/DPC IRMA count                              |
| PSA12 | <input type="checkbox"/> TOSOH   |
| PSA8  | <input type="checkbox"/> Wallac DELFIA                                       |
| PSA9  | <input type="checkbox"/> Other methods, please specify on enrolment document |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### SODIUM mmol/l

- | CODE  | METHOD   |
|-------|--|
| NACH  | <input type="checkbox"/> Chromolyte  |
| NAEN  | <input type="checkbox"/> Enzymatic   |
| NAFP  | <input type="checkbox"/> Flame photometry                                    |
| NAISE | <input type="checkbox"/> Ion Selective Electrode method - direct             |
| NISE1 | <input type="checkbox"/> Ion Selective Electrode method - indirect           |
| NAOF  | <input type="checkbox"/> Optical Fluorescence                                |
| NADC  | <input type="checkbox"/> Ortho Vitros Microslide Systems                     |
| NADT  | <input type="checkbox"/> Vitros DT60/DT60 II/DTE II                          |
|       | Vitros Slide Generation Number <input type="text"/> <input type="text"/>     |
| NAOD  | <input type="checkbox"/> Other Dry Chemistry                                 |
| NAOM  | <input type="checkbox"/> Other methods, please specify on enrolment document |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

### FREE TRIIODOTHYRONINE (FREE T3) pmol/l

CODE	METHOD
F3ARC	<input type="checkbox"/> Abbott, Architect
F3ABX	<input type="checkbox"/> Abbott, AxSym
F3ABB	<input type="checkbox"/> Abbott, IMx
F3SAN	<input type="checkbox"/> Beckman, Access
F3DXI	<input type="checkbox"/> Beckman, Dxl800
F3BIV	<input type="checkbox"/> Biomerieux, VIDAS
F3VIA	<input type="checkbox"/> Biomerieux, VIDIA
F3CII	<input type="checkbox"/> CIS, IRMA
F3BYK	<input type="checkbox"/> Diasorin (RIA)
F3LIA	<input type="checkbox"/> Diasorin Liaison
F3ELI	<input type="checkbox"/> ELISA
F3VEC	<input type="checkbox"/> Ortho Vitros, 3600/5600/ECi
F3C6	<input type="checkbox"/> Roche Cobas 6000
F3RCE	<input type="checkbox"/> Roche Cobas e411
F3ROC	<input type="checkbox"/> Roche, Cobas Core
F3EYS	<input type="checkbox"/> Roche, Elecsys
F3BOE	<input type="checkbox"/> Roche, Enzymun
F3RME	<input type="checkbox"/> Roche, Modular E170
F3CC	<input type="checkbox"/> Siemens/Bayer, ACS 180
F3CEN	<input type="checkbox"/> Siemens/Bayer, ADVIA Centaur
F3BAY	<input type="checkbox"/> Siemens/Bayer, Immuno I
F3DPC	<input type="checkbox"/> Siemens/DPC, Coat-a-Count
F3DPI	<input type="checkbox"/> Siemens/DPC, Immulite 1000
F3DP2	<input type="checkbox"/> Siemens/DPC, Immulite 2000/2500
F3TOS	<input type="checkbox"/> TOSOH
F3DEL	<input type="checkbox"/> Wallac, Delfia
F3O	<input type="checkbox"/> Other methods

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### TRIIODOTHYRONINE (TOTAL T3 ) nmol/l

CODE	METHOD
T3ARC	<input type="checkbox"/> Abbott, Architect
T3ABX	<input type="checkbox"/> Abbott, Axsym
T3ABB	<input type="checkbox"/> Abbott, IMx
T3SAN	<input type="checkbox"/> Beckman, Access/LXi725
T3DXI	<input type="checkbox"/> Beckman, Dxl800
T3BIV	<input type="checkbox"/> bioMerieux, VIDAS
T3CIR	<input type="checkbox"/> CIS, RIA coated tube
T3BYK	<input type="checkbox"/> Diasorin (RIA)
T3LIA	<input type="checkbox"/> Diasorin Liaison
T3DSL	<input type="checkbox"/> DSL, RIA
T3ELI	<input type="checkbox"/> ELISA
T3IMI	<input type="checkbox"/> Immunotech, IRMA
T3MP	<input type="checkbox"/> MP Biomedicals, RIA
T3VEC	<input type="checkbox"/> Ortho Vitros, 3600/5600/ECi
T3C6	<input type="checkbox"/> Roche Cobas 6000
T3RCE	<input type="checkbox"/> Roche Cobas e411
T3ROC	<input type="checkbox"/> Roche, Cobas Core
T3EYS	<input type="checkbox"/> Roche, Elecsys
T3BOE	<input type="checkbox"/> Roche, Enzymun
T3RME	<input type="checkbox"/> Roche, Modular E170
T3CC	<input type="checkbox"/> Siemens/Bayer, ACS 180
T3CEN	<input type="checkbox"/> Siemens/Bayer, ADVIA Centaur
T3BAY	<input type="checkbox"/> Siemens/Bayer, Immuno I
T3DPC	<input type="checkbox"/> Siemens/DPC, Coat-a-count
T3DPI	<input type="checkbox"/> Siemens/DPC, Immulite 1000
T3DP2	<input type="checkbox"/> Siemens/DPC, Immulite 2000/2500
T3TOS	<input type="checkbox"/> TOSOH
T3O	<input type="checkbox"/> Other methods

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

### FREE THYROXINE (FREE T4) pmol/l

CODE	METHOD
F4ARC	<input type="checkbox"/> Abbott, Architect
F4ABX	<input type="checkbox"/> Abbott, AxSym
F4ABB	<input type="checkbox"/> Abbott, IMx
F4SAN	<input type="checkbox"/> Beckman, Access/LXi725
F4DXI	<input type="checkbox"/> Beckman, Dxl800
F4BIV	<input type="checkbox"/> Biomerieux, VIDAS
F4VIA	<input type="checkbox"/> Biomerieux, VIDIA
F4BYK	<input type="checkbox"/> DiaSorin (RIA)
F4LIA	<input type="checkbox"/> Diasorin Liaison
F4ELI	<input type="checkbox"/> ELISA
F4IMI	<input type="checkbox"/> Immunotech, IRMA
F4VEC	<input type="checkbox"/> Ortho Vitros, 3600/5600/ECi
F4C6	<input type="checkbox"/> Roche Cobas 6000
F4ROC	<input type="checkbox"/> Roche Cobas Core
F4RCE	<input type="checkbox"/> Roche Cobas e411
F4EYS	<input type="checkbox"/> Roche, Elecsys
F4RME	<input type="checkbox"/> Roche, Modular E170
F4CC	<input type="checkbox"/> Siemens/Bayer, ACS 180
F4CEN	<input type="checkbox"/> Siemens/Bayer, ADVIA Centaur
F4IMS	<input type="checkbox"/> Siemens/Bayer, ADVIA IMS 800i
F4BAY	<input type="checkbox"/> Siemens/Bayer, Immuno I
F4DD	<input type="checkbox"/> Siemens/Dade Dimension
F4DPC	<input type="checkbox"/> Siemens/DPC, Coat-a-Count
F4DPI	<input type="checkbox"/> Siemens/DPC, Immulite 1000
F4DP2	<input type="checkbox"/> Siemens/DPC, Immulite 2000/2500
F4TOS	<input type="checkbox"/> TOSOH
F4DEL	<input type="checkbox"/> Wallac, Delfia
F4O	<input type="checkbox"/> Other methods

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### THYROXINE (TOTAL T4) nmol/l

CODE	METHOD
T4ARC	<input type="checkbox"/> Abbott, Architect
T4ABX	<input type="checkbox"/> Abbott, AxSym
T4ABB	<input type="checkbox"/> Abbott, IMx/FLx/TDx
T4DXI	<input type="checkbox"/> Beckman Dxl800
T4SAN	<input type="checkbox"/> Beckman, Access/LXi725
T4BIV	<input type="checkbox"/> Biomerieux, VIDAS
T4CIR	<input type="checkbox"/> CIS, RIA coated tube
T4LIA	<input type="checkbox"/> Diasorin, Liaison
T4DSL	<input type="checkbox"/> DSL, RIA
T4ELI	<input type="checkbox"/> ELISA
T4MP	<input type="checkbox"/> MP Biomedicals, RIA
T4VEC	<input type="checkbox"/> Ortho Vitros, 3600/5600/ECi
T4C6	<input type="checkbox"/> Roche Cobas 6000
T4ROC	<input type="checkbox"/> Roche Cobas Core
T4RCE	<input type="checkbox"/> Roche Cobas e411
T4EYS	<input type="checkbox"/> Roche, Elecsys
T4RME	<input type="checkbox"/> Roche, Modular E170
T4CC	<input type="checkbox"/> Siemens/Bayer, ACS 180
T4CEN	<input type="checkbox"/> Siemens/Bayer, ADVIA Centaur
T4BAY	<input type="checkbox"/> Siemens/Bayer, Immuno I
T4DPC	<input type="checkbox"/> Siemens/DPC, Coat-a-Count
T4DPI	<input type="checkbox"/> Siemens/DPC, Immulite 1000
T4DP2	<input type="checkbox"/> Siemens/DPC, Immulite 2000/2500
T4TOS	<input type="checkbox"/> TOSOH
T4DEL	<input type="checkbox"/> Wallac, Delfia
T4O	<input type="checkbox"/> Other methods

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

### TOTAL IRON BINDING CAPACITY $\mu\text{mol/l}$

CODE	METHOD
TIBCD	<input type="checkbox"/> Direct Colorimetric
UIBC	<input type="checkbox"/> FE+UIBC(saturation with fixed amount of iron)
TIBC	<input type="checkbox"/> Removal of excess free iron
IBCDC	<input type="checkbox"/> Ortho Vitros Microslide Systems Vitros Slide Generation Number <input type="text"/>
IBCOD	<input type="checkbox"/> Other Dry Chemistry
TIBCO	<input type="checkbox"/> 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 Glycerol 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
<b>METHOD 1 - LIPASE/GPO-PAP</b>	
TG1A	<input type="checkbox"/> Colorimetric without glycerol correction
TG1B	<input type="checkbox"/> Colorimetric with 0.11 mmol/l (10 mg/dl) glycerol correction
<b>METHOD 2 - LIPASE/GLYCEROL KINASE UV</b>	
TG2A	<input type="checkbox"/> End-point without glycerol correction
TG2B	<input type="checkbox"/> End-point with 0.11 mmol/l (10 mg/dl) glycerol correction
<b>METHOD 3 - LIPASE/GLYCEROL DEHYDROGENASE</b>	
TG3	<input type="checkbox"/>
<b>METHOD 4 - DRY CHEMISTRY</b>	
TRIDC	<input type="checkbox"/> Ortho Vitros Microslide Systems
TRIDT	<input type="checkbox"/> Vitros DT60/DT60 II Vitros Slide Generation Number <input type="text"/>
TRIOD	<input type="checkbox"/> Other Dry Chemistry

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

CODE	METHOD
<b>METHOD 1 - LIPASE/GPO-PAP</b>	
TG1C	<input type="checkbox"/> Colorimetric 'free' glycerol blank correction
<b>METHOD 2 - LIPASE/GLYCEROL KINASE UV</b>	
TG2C	<input type="checkbox"/> End-point 'free' glycerol blank correction

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

### THYROID STIMULATING HORMONE (TSH) uU/ml

IMPORTANT NOTE - TSH is only available at endogenous levels in this programme.

Clinical concentration ranges are available in RQ9125 and RQ9130

CODE	METHOD
TSARC	<input type="checkbox"/> Abbott, Architect
TSAX3	<input type="checkbox"/> Abbott, AxSym 3rd generation
TSABX	<input type="checkbox"/> Abbott, AxSym Ultrasensitive hTSH II
TSABB	<input type="checkbox"/> Abbott IMx Ultrasensitive hTSH II
TSAIR	<input type="checkbox"/> Adaltis, IRMA
TSSAF	<input type="checkbox"/> Beckman Access/LXi725 Fast TSH 2nd gen
TSSAN	<input type="checkbox"/> Beckman Access/LXi725 hyper TSH 3rd gen
TSDXI	<input type="checkbox"/> Beckman DXI800 1st generation
TSDXF	<input type="checkbox"/> Beckman DXI800 fast TSH
TSDXH	<input type="checkbox"/> Beckman DXI800 Hyper TSH
TSVIA	<input type="checkbox"/> Biomerieux VIDIA
TSBV3	<input type="checkbox"/> Biomerieux, VIDAS TSH3 (ultrasensitive)
TSBIV	<input type="checkbox"/> Biomerieux, VIDAS TSH
TSLIA	<input type="checkbox"/> Diasorin Liaison
TSELI	<input type="checkbox"/> ELISA
TSIMI	<input type="checkbox"/> Immunotech, IRMA
TSVEC	<input type="checkbox"/> Ortho Vitros, 3600/5600/ECi
TSC6	<input type="checkbox"/> Roche Cobas 6000
TSROC	<input type="checkbox"/> Roche Cobas Core
TSRCE	<input type="checkbox"/> Roche Cobas e411
TSEYS	<input type="checkbox"/> Roche Elecsys
TSRME	<input type="checkbox"/> Roche Modular E170
TSCEN	<input type="checkbox"/> Siemens/Bayer ADVIA Centaur
TSCN3	<input type="checkbox"/> Siemens/Bayer ADVIA Centaur 3rd generation
TSCC	<input type="checkbox"/> Siemens/Bayer, ACS 180
TSCC3	<input type="checkbox"/> Siemens/Bayer, ACS 180, 3rd generation
TSDD	<input type="checkbox"/> Siemens/Dade Dimension
TSDPI	<input type="checkbox"/> Siemens/DPC Immulite 1000
TSDP2	<input type="checkbox"/> Siemens/DPC Immulite 2000/250C
TSTOS	<input type="checkbox"/> TOSOH
TSDEL	<input type="checkbox"/> Wallac Delfia
TSDEU	<input type="checkbox"/> Wallac Delfia Ultra
TSO	<input type="checkbox"/> Other methods

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

### UREA mmol/l

CODE	METHOD
URAC	<input type="checkbox"/> Beckman-Conductivity
URDM	<input type="checkbox"/> Diacetyl monoxime
URPHT	<input type="checkbox"/> O-Phthalaldehyde
URUEP	<input type="checkbox"/> Urease, end point
URURH	<input type="checkbox"/> Urease, hypochlorite
URUK	<input type="checkbox"/> Urease, kinetic
URDC	<input type="checkbox"/> Ortho Vitros Microslide Systems
URDT	<input type="checkbox"/> Vitros DT60/DT60 II
	<input type="checkbox"/> Vitros Slide Generation Number <input type="text"/>
UROD	<input type="checkbox"/> Other Dry Chemistry

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

# GENERAL CLINICAL CHEMISTRY

## METHOD QUESTIONNAIRE

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### URIC ACID mmol/l

- | CODE  | METHOD  |
|-------|---|
| URED  | <input type="checkbox"/> Reduction methods  |
| URSP  | <input type="checkbox"/> Spectrophotometric at 280-290 nm   |
| URPER | <input type="checkbox"/> Uricase peroxidase without ascorbate oxidase                             |
| URPA2 | <input type="checkbox"/> Uricase peroxidase with ascorbate oxidase @ 546nm                        |
| URPAS | <input type="checkbox"/> Uricase peroxidase with ascorbate oxidase                                |
| URCAT | <input type="checkbox"/> Uricase - catalase 340nm.  |
| UACDC | <input type="checkbox"/> Ortho Vitros Microslide Systems  |
| UADT  | <input type="checkbox"/> Vitros DT60/DT60 II  |
|       | <input type="checkbox"/> Vitros Slide Generation Number <input type="text"/> <input type="text"/> |
| UACOD | <input type="checkbox"/> Other Dry Chemistry  |
| URICO | <input type="checkbox"/> Other methods, please specify on enrolment document                      |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

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### ZINC µmol/l

- | CODE | METHOD   |
|------|--|
| ZAA  | <input type="checkbox"/> Atomic absorption                                   |
| ZCOL | <input type="checkbox"/> Colorimetric with deprot.                           |
| ZNMS | <input type="checkbox"/> Mass Spectrometry                                   |
| ZO   | <input type="checkbox"/> Other methods, please specify on enrolment document |

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

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