

REGISTRATION INSTRUCTIONS & RIQAS POLICIES

CRITERIA FOR PARTICIPATION

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

INTRODUCTION

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

REGISTRATION INSTRUCTIONS

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

METHOD QUESTIONNAIRE:- To be retained by participant

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

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

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

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. It is possible to enrol multiple instruments within your laboratory. 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 pilot study. 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. RIQASNet

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 this Method Questionnaire. You understand that the submission of your enrolment document to RIQAS marks an agreement to participate in the pilot study. 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.

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/pilot study. 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

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. 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:

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

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

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

ASSAY OF SAMPLES & RETURN OF RESULTS

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

LATE AND CORRECTED RESULTS

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

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

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

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

DESPATCH OF REPORTS

Results will normally be processed within 2 days of the FINAL DATE. PDF reports will be emailed the day after the results have been processed 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 Certificate 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 RIQAS Explained 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.

PARTICIPANT FEEDBACK, COMPLAINTS & APPEALS

Feedback from participants during the running of the pilot study will be welcomed.

Please send any feedback to mail@riqas.com.

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

IL04RDE

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

THIS PROGRAMME IS NOT
ACCREDITED TO ISO/IEC
17043:2010

RQ9195 - CYTOKINES PROGRAMME

METHOD QUESTIONNAIRE

EPIDERMAL GROWTH FACTOR (EGF) pg/ml (PILOT)

CODE	METHOD
EGFRAN	<input type="checkbox"/> Randox reagents
EGFABC	<input type="checkbox"/> Abcam SimpleStep ELISA
EGFOT48	<input type="checkbox"/> Olink Target 48
EGFTIV	<input type="checkbox"/> Thermofisher/Invitrogen reagents
	<input type="checkbox"/> Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

INTERFERON GAMMA (IFN- γ) pg/ml (PILOT)

CODE	METHOD
IFNBEC	<input type="checkbox"/> Becton Dickinson reagents
IFNJSC	<input type="checkbox"/> Jiangxi Saige Immunofluorescence
IFNMSD	<input type="checkbox"/> Mesoscale Discovery Reagents
IFNOT48	<input type="checkbox"/> Olink Target 48
IFNRAN	<input type="checkbox"/> Randox reagents
IFNTIV	<input type="checkbox"/> Thermofisher/Invitrogen reagents
	<input type="checkbox"/> Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

INTERLEUKIN 1 ALPHA (IL-1 α) pg/ml (PILOT)

CODE	METHOD
IL01ABC	<input type="checkbox"/> Abcam SimpleStep ELISA
IL01ABEC	<input type="checkbox"/> Becton Dickinson reagents
IL01ARAN	<input type="checkbox"/> Randox reagents
IL01TIV	<input type="checkbox"/> Thermofisher/Invitrogen reagents
	<input type="checkbox"/> Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

INTERLEUKIN 1 BETA (IL-1 β) pg/ml (PILOT)

CODE	METHOD
IL01BBEC	<input type="checkbox"/> Becton Dickinson reagents
IL01BJSC	<input type="checkbox"/> Jiangxi Saige Immunofluorescence
IL01MSD	<input type="checkbox"/> Mesoscale discovery reagents
IL01BOT48	<input type="checkbox"/> Olink Target 48
IL01BRAN	<input type="checkbox"/> Randox reagents
IL01BRD	<input type="checkbox"/> R&D Systems ELISA
IL01BSIE	<input type="checkbox"/> Siemens reagents
IL01BTIV	<input type="checkbox"/> Thermofisher/Invitrogen reagents
IL01BVB	<input type="checkbox"/> Vector Best
	<input type="checkbox"/> Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

INTERLEUKIN-2 (IL-2) pg/ml (PILOT)

CODE	METHOD
IL02BEC	<input type="checkbox"/> Becton Dickinson reagents
IL02JSC	<input type="checkbox"/> Jiangxi Saige Immunofluorescence
IL02MSD	<input type="checkbox"/> Mesoscale discovery reagents
IL02OT48	<input type="checkbox"/> Olink Target 48
IL02RAN	<input type="checkbox"/> Randox reagents
IL02RDE	<input type="checkbox"/> R&D Systems ELISA
IL02TIV	<input type="checkbox"/> Thermofisher/Invitrogen reagents
	<input type="checkbox"/> Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

INTERLEUKIN-4 (IL-4) pg/ml (PILOT)

CODE	METHOD
IL04BEC	<input type="checkbox"/> Becton Dickinson reagents
IL04JSC	<input type="checkbox"/> Jiangxi Saige Immunofluorescence
IL04MSD	<input type="checkbox"/> Mesoscale discovery reagents
IL04OT48	<input type="checkbox"/> Olink Target 48
IL04RAN	<input type="checkbox"/> Randox reagents
IL04RDE	<input type="checkbox"/> R&D Systems ELISA
IL04TIV	<input type="checkbox"/> Thermofisher/Invitrogen reagents
	<input type="checkbox"/> Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

RQ9195 - CYTOKINES PROGRAMME

METHOD QUESTIONNAIRE

INTERLEUKIN-6 (IL-6) pg/ml

CODE	METHOD
IL06BKM	<input type="checkbox"/> Beckman reagents
IL06BDX9	<input type="checkbox"/> Beckman DXI9000
IL06BEC	<input type="checkbox"/> Becton Dickinson reagents
IL06CAX	<input type="checkbox"/> Cormay Auryx ECLIA
IL06JSC	<input type="checkbox"/> Jiangxi Saige Immunofluorescence
IL06MSD	<input type="checkbox"/> Mesoscale discovery reagents
IL06OT48	<input type="checkbox"/> Olink Target 48
IL06RAN	<input type="checkbox"/> Randox reagents
IL06BHG	<input type="checkbox"/> R&D Human IL-6 3rd Generation
IL06RD	<input type="checkbox"/> R&D Systems ELISA
IL06ROC	<input type="checkbox"/> Roche reagents
IL06SIE	<input type="checkbox"/> Siemens reagents
IL06SNM	<input type="checkbox"/> SNIBE reagents
IL06TIV	<input type="checkbox"/> Thermofisher/Invitrogen reagents
IL06VB	<input type="checkbox"/> Vector Best
	Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

INTERLEUKIN-8 (IL-8) pg/ml (PILOT)

CODE	METHOD
IL08BEC	<input type="checkbox"/> Becton Dickinson reagents
IL08JSC	<input type="checkbox"/> Jiangxi Saige Immunofluorescence
IL08MSD	<input type="checkbox"/> Mesoscale discovery reagents
IL08OT48	<input type="checkbox"/> Olink Target 48
IL08RAN	<input type="checkbox"/> Randox reagents
IL08RD	<input type="checkbox"/> R&D Systems ELISA
IL08SIE	<input type="checkbox"/> Siemens reagents
IL08TIV	<input type="checkbox"/> Thermofisher/Invitrogen reagents
IL08VB	<input type="checkbox"/> Vector Best
	Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

INTERLEUKIN-10 (IL-10) pg/ml (PILOT)

CODE	METHOD
IL10BEC	<input type="checkbox"/> Becton Dickinson reagents
IL10JSC	<input type="checkbox"/> Jiangxi Saige Immunofluorescence
IL10MSD	<input type="checkbox"/> Mesoscale discovery reagents
IL10OT48	<input type="checkbox"/> Olink Target 48
IL10RAN	<input type="checkbox"/> Randox reagents
IL10BHG	<input type="checkbox"/> R&D Human IL-10 2nd Generation
IL10RD	<input type="checkbox"/> R&D Systems ELISA
IL10SIE	<input type="checkbox"/> Siemens reagents
IL10TIV	<input type="checkbox"/> Thermofisher/Invitrogen reagents
IL10VB	<input type="checkbox"/> Vector Best
	Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

MONOCYTE CHEMOTTRACTANT PROTEIN-1 (MCP-1) pg/ml (PILOT)

CODE	METHOD
MCPBEC	<input type="checkbox"/> Becton Dickinson reagents
MCPOT48	<input type="checkbox"/> Olink Target 48
MCPRAN	<input type="checkbox"/> Randox reagents
MCPTIV	<input type="checkbox"/> Thermofisher/Invitrogen reagents
	Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

RQ9195 - CYTOKINES PROGRAMME

METHOD QUESTIONNAIRE

TUMOUR NECROSIS FACTOR ALPHA (TNF- α) pg/ml (PILOT)

CODE		METHOD
TNFBEC	<input type="checkbox"/>	Becton Dickinson reagents
TNFJSC	<input type="checkbox"/>	Jiangxi Saige Immunofluorescence
TNFMSD	<input type="checkbox"/>	Mesoscale discovery reagents
TNFOT48	<input type="checkbox"/>	Olink Target 48
TNFRAN	<input type="checkbox"/>	Randox Reagents
TNFRD	<input type="checkbox"/>	R&D Systems ELISA
TNFTIV	<input type="checkbox"/>	ThermoFisher/Invitrogen reagents
TNFSIE	<input type="checkbox"/>	Siemens reagents
TNFVB	<input type="checkbox"/>	Vector Best
		Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY

VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF) pg/ml (PILOT)

CODE		METHOD
VEGBEC	<input type="checkbox"/>	Becton Dickinson reagents
VEGMSD	<input type="checkbox"/>	Mesoscale Discovery Reagents
VEGOT48	<input type="checkbox"/>	Olink Target 48
VEGRAN	<input type="checkbox"/>	Randox reagents
VEGTIV	<input type="checkbox"/>	ThermoFisher/Invitrogen reagents
		Other methods, please specify on enrolment document

INSTRUMENT CODE

REAGENT CODE

OTHER UNITS, SPECIFY