

User Guide for the IBGRL Red Cell Reference Laboratory

Referral of Blood Samples to the Red Cell Reference Laboratory

The main function of the Red Cell Reference Department of the IBGRL is to undertake alloantibody investigations of a non-routine and complex nature where compatible blood is difficult to find.

1. Antibodies to high frequency antigens and complex mixtures

Case Acceptance Criteria (all must be met)

- Antibodies that react with all or the vast majority of cells.
- Minimum 2+ reactions by LISS tube (IBGRL will not investigate weak gel-only antibodies).
- Alloantibodies only, please perform the autologous control untreated and papain treated.
- A phenotype/genotype for all common blood group antigens should be provided.

Sample Acceptance Criteria

- Minimum of 10ml EDTA. Larger samples are preferable and sometimes may be essential.
- Anticoagulated samples should not be separated.
- Clotted samples will be accepted if supplied with anticoagulated samples also.
- Separation of clotted samples is optional.

2. Antibodies to low incidence antigens

Case Acceptance Criteria (all must be met)

- Antibody to a single example of donor cells or baby's / father's cells in case of maternal antibody.
- Minimum 2+ reaction.

Sample Acceptance Criteria

- Minimum of 10ml EDTA sample from the patient PLUS 10ml EDTA sample from the incompatible donor or father.
- In the event of a suspected transfusion reaction red cells will be accepted from the implicated unit.
- Antibody AND incompatible cells MUST BOTH be provided.

3. Red cell antigen investigations

Case Acceptance Criteria (all must be met)

- Carried out on any blood group system where determination of phenotype is difficult or an uncommon blood group is suspected.

Sample Acceptance Criteria

- Minimum of 10ml EDTA sample.
- Rh problems with an Rh-related antibody BOTH plasma and red cells must be provided.

4. Other investigations

- Other types of referrals will be considered.
- It is essential to telephone or email to discuss the case before dispatch of the samples.

Referrals

IBGRL staff can be contacted by email or phone to ensure that referrals are appropriate.

Referral of samples accompanied by a signed and completed Red Cell Reference External Request Form (FRM5891) and acceptance of this sample for testing by IBGRL constitutes an agreement between the Requester and NHS Blood and Transplant as outlined in the terms and conditions on FRM5891. Samples will not be returned to the referring laboratory.

See www.blood.co.uk/IBGRL for FRM5891.

Urgent referrals are defined as those where blood for transfusion is needed as quickly as possible. It is essential that the red cell reference laboratory is contacted by telephone or email to discuss the case prior to sending urgent referrals.

Ideal patient identification

- Surname / family name and first name(s) in full.
- Date of birth.
- Unique identification number e.g. NHS number, hospital number (the same number must be on both the tube and the form).
- Date of venepuncture / sampling.

Delivery

All packages should be clearly labelled with:

- IBGRL address.
- Sender's name and address.
- Storage conditions.

Within the UK

- Non urgent by first class mail.
- Urgent by courier ensuring door-to-door delivery.

Outside the UK

- By express mail, courier or air-freight ensuring door-to-door delivery.
- If delivery is likely to take >24hours consider packaging red cell samples in chilled containers.

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Reporting of Blood Samples referred to the Red Cell Reference Laboratory

Reporting of Results

Results will only be released to the referring laboratory. Hospitals in England must contact their local RCI laboratory for updates, preliminary and final reports. Reports will normally be sent by first class mail. In urgent cases, or when requested, preliminary results may be given by email or telephone prior to mailing a final report.

Due to the varying nature of the requests sent to Red Cell Reference a turnaround time cannot be specified. The time between receipt of sample and reporting will depend on the clinical situation of the patient, the complexity of the investigation and the number of samples in the laboratory at any given time. Cases are prioritised and therefore some investigations may be necessarily delayed.

Red Cell Reference will contact the referrer within 6 weeks of receipt of the sample, to discuss the progress of the case.

User Assessment

We would be grateful if referrers would participate in our regular customer satisfaction surveys. These are posted to the referring laboratories and can also be found on the IBGRL website.

Complaints Procedure

IBGRL Red Cell Reference is committed to continuously improving the quality of services provided and welcomes any comments or suggestions from users. Please contact the Laboratory Manager or Head of Department in the first instance regarding complaints and suggestions. Complaints are managed via our Quality Management system or Customer Services as appropriate. We always strive to provide a satisfactory response to any complaint. In the unlikely event that your complaint is not resolved to your satisfaction please refer to the NHSBT complaints procedure.

<http://hospital.blood.co.uk/customer-services/complaints-compliments-and-feedback/>

Correspondence

Address for packages

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Working Hours

Monday - Friday 09:00 – 17:30

Enquiries

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