

Steering Committee
Chairperson: Dr P Baker
Scheme Director: Dr M R Rowley
Scheme Manager: Mrs C E Milkins

14/15ABO T2

Exercise instructions

Distributed on 09/09/2014 – Closing on 23/09/2014

Material Provided

- Three group O samples for anti-A titration, prepared from filtered fresh frozen plasma*.
- One group A D negative red cell sample (approximately 30% in modified Alsever's solution).
- We recommend that these samples are centrifuged prior to testing.

* Those who undertake renal (or other solid organ) transplant, please treat these as samples from patients awaiting an ABO incompatible transplant from a group A living donor.

Testing

Using the red cells provided, undertake titration of anti-A on the 3 plasma samples using your in-house techniques, and if possible the equivalent standard techniques using DiaMed technology as described below.

Standard techniques (DiaMed)

- Prepare dilutions of plasma in saline (PBS or NaCl) using a doubling dilution method. Make the dilutions with a minimum volume of 200µl, using an automatic pipette. Use a new tip to dispense each dilution.
- Prepare a 0.8 - 1% red cell suspension in CellStab (use ID-diluent 2 if CellStab is not available).
- Read the endpoint of the titration as the last **weak** reaction.

LISS indirect antiglobulin test (IAT) using IgG or polyspecific cards

- a) Add 50ul of cells suspended in CellStab or ID-diluent 2 to each microtube
- b) Add 25ul of each plasma dilution to the corresponding microtube
- c) Incubate at 37°C for 15'
- d) Centrifuge 10' in DiaMed centrifuge

Direct agglutination at room temperature (DRT) using NaCl cards

- a) Add 50ul of cells suspended in CellStab or ID-diluent 2 to each microtube
- b) Add 50ul of each plasma dilution to the corresponding microtube
- c) Incubate at RT for 15'
- d) Centrifuge 10' in DiaMed centrifuge

Return of results

Record results for your in-house testing and standard techniques (if undertaken) via the SuveyMonkey link provided by email. If your in-house method is DiaMed and matches the Standard techniques outlined above, please enter results for the Standard technique only.

If you have any problems with the material or any queries regarding the questionnaire or results please contact either Arnold Mavurayi, Jenny White or Clare Milkins

With thanks for your participation