

VTIS Sample Requirements

Information Sheet Template (TEMP-00069, V2)

Diagnostic test		Minimum sample requirements (grey shaded is N/A)		
		ACD	EDTA	Serum (gel/SST)
HLA typing for transplant patients and donors - Initial and verification typing	Adult		12mL	
	Paediatric		2–12mL	
HLA typing and initial / virtual crossmatch			12mL	6mL
HLA verification typing and lymphocyte crossmatch - recipient		30mL		6mL
HLA verification typing and lymphocyte crossmatch – donor		30mL		
Lymphocyte crossmatch only (no HLA typing required) – recipient				6ml
Lymphocyte crossmatch only (no HLA typing required) - donor		30mL		
ANZKX renal donor at registration			36mL	
Solid organ deceased donor		48mL		6mL
HLA antibody screen / specificity testing <i>e.g. TWL monthly serum (CYT), post-transplant donor specific antibodies (DSA), angiotensin II type 1 receptor (AT1R) antibodies</i>				6mL
HLA and disease or drug association typing <i>e.g. B27, Coeliac (DQB1, DQA1), Abacavir</i>			6mL	
Platelet refractory patients for HLA and/or HPA typing and antibody testing – initial testing		8mL ACD or EDTA		12mL
Platelet refractory patients – ongoing monitoring of HLA/HPA antibody status				12mL

Please note:

- ****IMPORTANT: Changes have been made to the above sample requirements due to the limited availability of ACD tubes internationally. Lymphocyte crossmatch samples must be collected in ACD** (Please contact VTIS on ph: 9694-0354 if ACD tubes are unable to be sourced).
- EDTA samples can be accepted for HLA typing if ACD is not available.
- All ACD, clotted tubes and serum samples to be transported at +2°C to 30°C. EDTA samples NOT to be transported on ice packs.
- Buccal swabs are suitable when a patient cannot be bled or if a leukaemic patient is not in remission at time of blood sample collection. The required swabs are dry swabs.
- Reports will be issued within 7-20 days of sample receipt
- Before collection, book all solid organ crossmatch and renal HLA typing samples with VTIS; ph: 9694 0354, or email DL-VICVTISAdmin@redcrossblood.org.au.
- AT1R testing is performed by SA TIS laboratory, serum sample can be sent to VTIS for shipping to SA TIS.
- For platelet transfusion refractory patients, platelet and/or neutrophil antibody and genotyping investigations (e.g. FNAIT, NAIN, TRALI), please refer to the following documents available on the Transfusion website: https://transfusion.com.au/transplantation_services:
 - *Neutrophil Investigation Request* (FRM-02300)

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- Platelet Investigation Request (FRM-02189)
- Fetal Neonatal Alloimmune Thrombocytopenia (FNAIT) Investigation Request (FRM-02191)

Sample and paperwork labelling




- All external sample tubes (or buccal swab outer container) require at least two forms of identification (name and date of birth); as well as sample collection date.
- Note:** Samples received without at least two unique identifiers **will not be tested**.
- Lifeblood samples arriving with only the donation number on the tube will be checked on NBMS and labelled with the name, DOB and Donor ID.
 - All accompanying paperwork requires at least three forms of identification.
 - Sending pathology reference number must be consistent across all paperwork and tubes.
 - The patient diagnosis, relevant clinical notes and tests required to be clearly indicated on the accompanying paperwork.

Sample packaging

- All samples must be packaged appropriately; for example, a biohazard plastic bag with sufficient absorbent material to contain a spill, and placed in a sealed esky or similar outer container.
- Address the outer container to:

Victorian Transplantation and Immunogenetics Service (VTIS)
 Australian Red Cross Lifeblood
 Melbourne Processing Centre
 100–154 Batman St, West Melbourne, 3003
 Ph. (03) 9694-0354

Examples of acceptable tubes

<p>ACD tube</p> 	<p>EDTA tube</p> 
<p>Serum (gel/SST) tube</p> 	<p>Dry buccal swab collection tube</p> 