

HLA

SERUM FOR
CROSSMATCH
LD - RECIPIENT

Orderable - HLAS

Turnaround Time: 14 days



Laboratory:
Transplant Lab



Requisition:
[TRANSPLANT
LABORATORY
REQUISITION](#)



Method of Analysis:
cPRA determinations are obtained by using the TGLN or CBS cPRA calculator and are based on specificities detected with solid phase bead technology using the Luminex® platform. Living donor crossmatches are performed using flow cytometry.



Test Schedule:
As required Monday to Friday except Stat holidays
This test should be ordered to be drawn on the same day the final crossmatch against a living donor is to be performed.

Specimen:

6 mL Red top Vacutainer tube - No additives or separator gel

Collection Information:

Draw pre-dialysis (if applicable) and by venipuncture to avoid contamination with anticoagulants.

Reference Ranges:

Crossmatch Positive or Negative
cPRAs: 0-100% (HLA Antibody Testing)
DSA detected or not detected

Interpretive Comments:

A positive crossmatch may indicate the presence of anti-donor antibodies.

Anti-HLA antibodies indicate sensitization to potential organ donors and some blood products.

Antibodies directed against donor HLA antigens may predict a risk of rejection

Comments:

This sample will be one of the samples used for a flow cytometer crossmatch against a living donor.

In addition the sample may be used for cPRA or DSA testing as outlined in the program-specific policies.

Critical Information Required:

Indicate if the patient is undergoing therapy with products or medication containing therapeutic antibodies such as Rituxan, Campath, Eculizumab, IVIG, OKT3, ALG, etc. as these may interfere with the results.

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Indicate if the patient has had any sensitizing events such as blood transfusions, previous transplants, pregnancies etc. as these could influence the interpretation of the results.

Also indicate if the patient is undergoing a change in immunosuppression regime or is being treated by plasma exchange since these actions may explain fluctuations in results.

DSA analysis requires knowledge of the HLA typing of the donor or prospective donor of interest. Patients who were not transplanted in the London program will need to have this information forwarded to this laboratory.

Storage and Shipment:

Samples drawn at LHSC are delivered to the Transplant Laboratory at room temperature.

Samples for **Antibody Testing** (1 red top) drawn outside of LHSC must be spun and the serum removed and frozen. Ship on dry ice if shipping requires >24 hours. Ship frozen on freezer packs if the sample will be received in < 24 hours.