

HLA TYPING REQUISITION BUCCAL SWAB SAMPLE



SickKids Requisition – Bone Marrow Transplant

Regional Histocompatibility Lab

UHN-HLA Laboratory

200 Elizabeth Street, 11E-444

Toronto, Ontario M5G 2C4

416.340.4995 (for physician use only) Fax 416.340.3133

Samples are accepted Monday to Friday 9 am-5pm.

For turn-around times, please refer to Transplant Service Agreement

Name on sample:

MRN:

DOB:

Sample Collection
Date:

Sample Collection
Time:

Sample Collector ID:

Buccal swab collection instructions: Please see page 2.

Please complete RECIPIENT OR RELATED DONOR section below, as appropriate.

Note that missing information may result in delayed testing and/or rejection of the sample.

☐ **RECIPIENT:** Diagnosis _____ Ordering Physician: _____

CHOOSE ONE:

☐ **Standard Transplant Workup.** Please send **BOTH** blood and buccal samples to the lab simultaneously (2 requisitions).
 -High resolution typing by NGS on one sample (A B C DRB1 DQB1 DRB3/4/5 DQA1 DQB1 DPA1 DPB1 loci).
 -Intermediate resolution typing by rSSO at HLA-A, B, DRB1 for other sample.
 -If only one sample is received and no external typing is on record in the lab, sample will be typed by NGS.

☐ **Urgent Transplant Workup** Please send **BOTH** blood and buccal samples to the lab simultaneously (2 requisitions).
 -Select only when an urgent HSCT is clinically indicated. HLA typing will be done as described for Standard Transplant Workup but samples will be given priority and placed on the next run. Contact **BOTH** an HLA Lab Director and HLA search coordinator to discuss timelines and/or different HLA typing algorithms, if needed.

☐ **Confirmatory typing** Select this when previous HLA typing is on record in the HLA Lab. If sequence-based typing (NGS, Sanger, SBT) has NOT been done previously, NGS will be done. Otherwise, sample will be typed by rSSO at t HLA-A, B and DRB1.

☐ **RELATED DONOR:**

Potential Recipient Name: _____

HSC MRN: _____

Relationship of Donor to the Recipient: _____

☐ Check here if donor is for a PMH patient.

CHOOSE ONE:

☐ **Standard Transplant Workup.** Please send **BOTH** blood and buccal samples to the lab simultaneously (2 requisitions).
 -Intermediate resolution typing by rSSO at HLA-A, B, DRB1 for one sample.
 -DNA extraction and storage only for other sample. NGS add-on request may be sent by the program later.
 -If only one sample is received and no external typing is on record in the lab, sample will be typed by rSSO at HLA-A, B and DRB1.

☐ **Urgent Transplant Workup** Please send **BOTH** blood and buccal samples to the lab simultaneously (2 requisitions).
 -Select only when an urgent HSCT is indicated. HLA typing will be done as described for Standard Transplant Workup but samples will be given priority and placed on the next run. Contact **BOTH** an HLA Lab Director and HLA search coordinator to timelines and/or different HLA typing algorithms, if needed.

☐ **Confirmatory typing** Select this when previous HLA typing is on record in the HLA Lab. Sample will be typed by rSSO at HLA-A, B and DRB1.

Instructions for Collecting Buccal Mucosa Specimens using Cotton Tipped Applicators

Before starting sample collection:

1. Read all instructions below.
2. Ensure all supplies have been obtained prior to collection.
3. Postpone collection if any of the individual has engaged in any of the following activities during the last hour: eating, tooth brushing, rinsing with mouthwash, smoking

Supplies:

- 4 Buccal Swabs
- Pre-printed specimen labels with a minimum of two personal identifiers and the date of collection (if applicable)
- Completed requisition form
- Plastic specimen bag for collected samples

Steps for collection:

1. **Prepare for collection:** Open a packet containing one of the four buccal swabs. Remove applicators from the packet holding the handle away from the swab.
2. **Collect the specimens from the patient or potential donor:** Pick up the buccal swabs by the handle and place the tip against the inside of one of the patient's/donor's cheek. Move it up and down 6 times, rotating it a few times and trying to cover most of the cheek area, while avoiding the gums and tongue. When finished, put the swab back into the RapidDri Pouch and label the Pouch. Repeat this process, using all the swabs, and also switching between swabbing both cheeks. When finished, place all four RapidDri Pouch's into a secondary plastic specimen bag along with a filled out laboratory requisition form.
3. **Ship immediately at temperatures between 4 and 24c.**

Lab Acc. # _____