



## Edmonton Diagnostic Services Immunoematology Referral Testing Services

### RBC Genotyping Testing for RHCE and Extended Blood Groups

BC\_REF-07

#### TEST DESCRIPTION

This is a PCR-based assay for the identification of multiple alleles encoding human erythrocyte antigens in genomic DNA. The IDCORE XT™ test identifies 29 genomic variants responsible for normal and altered expressions of human red cell antigens in the Rh, Kell, Kidd, Duffy, MNS, Diego, Dombrock, Colton, Cartwright, and Lutheran blood group systems. These tests are alternatives to serological testing in cases of discordant antigen phenotyping results, autoimmune hemolytic anemia, chronically transfused patients with previously identified antibodies, patients receiving treatment with anti-CD38, and patients with transfusion dependent diseases such as sickle cell disease and thalassemia.

**Note:** *This test is not recommended for patient with history of bone marrow (stem cell) transplant.*

#### SPECIMEN AND REQUISITION REQUIREMENTS

##### Specimen(s)

- One (1) 2 - 7 ml EDTA (lavender) tube mixed thoroughly by gentle agitation.
- Label specimen with the required minimum information: patient's last name, first name, middle name, PHN or unique identifier and date of collection.

##### Complete Requisition (must include)

- Patient's last name, first name, middle name, PHN or unique identifier and date of birth
- Facility name, complete address, phone and fax number
- Phlebotomist ID information
- Date of collection

##### Requisition(s)

- *Request for Blood Group Genotyping (Patient) National Immunoematology Reference Laboratory (NIRL) (F800019)*
- *Demande de Génompage Sanguin (Patient) Laboratoire d'Immunoématologie National de Référence (LINR) (F800226)*

#### PRE-SHIPING STORAGE

Recommended Refrigeration 1-10°C.

#### SHIPPING INSTRUCTIONS

Submit samples as soon as possible after collection.

##### Shipping

- Ship in a container that will maintain temperature 2°C to 25°C
- Select shipping method for container to arrive at testing site within 48 hours.
- Sample must be received at testing site within 14 days of collection.

**Note:** *Protect from freezing.*

#### SEND TO

Canadian Blood Services,  
Diagnostic Services Laboratory  
BC & Yukon Centre  
4750 Oak Street  
Vancouver, BC V6H 2N9  
Tel: 604-707-3434 Fax: 604-874-6582