



Edmonton Diagnostic Services Perinatal Testing Services

Fetal Genotyping from Maternal Plasma Instructions

AB_PN-08

TEST DESCRIPTION

Blood group genotyping of fetal DNA is performed to predict the blood group antigen status of the fetus at high risk for Hemolytic Disease of the Fetus and Newborn (HDFN). Because cell-free fetal DNA is normally present in maternal blood plasma throughout pregnancy, a non-invasive venipuncture sample can be collected from the mother for testing without risk to the fetus.

Testing Schedule

- For RhD, Rhc, RhE and RhC antigens, submit mother's sample > 16 weeks gestation.
- For K (Kell) antigen, submit mother's sample >20 weeks gestation.

SPECIMEN AND REQUISITION REQUIREMENTS

Specimen(s)

- Certain test criteria must be met prior to testing. Canadian Blood Services Laboratory Supervisor must be contacted prior to patient sample collection. Refer to **Fetal Genotyping on Maternal Plasma Collection Site Instructions_AB**
- Label specimen with the required minimum information: patient's last name, first name, PHN or Unique Lifetime Identifier (ULI) and date/time of collection.

Complete Requisitions (must include, as applicable)

- Patient's Last name, First name, Date of Birth and PHN or ULI
- Expected date of delivery (EDD)
- Clinic and Health Care Provider Name. complete address, phone and fax number
- Phlebotomist ID information
- Date/time of collection

Requisition(s)/Information

- *Fetal Genotyping from Maternal Plasma*
- *International Blood Group Reference Laboratory Requisition*
- *Guidance for Completion of International Blood Group Laboratory Requisition*
- *Fetal Genotyping on MATERNAL PLASMA Collection Site Instructions*
- *Fetal Genotyping on MATERNAL PLASMA Maternal Fetal Medicine Instructions*
- *Consent for Release of Neonatal Test Results Form*

PRE-SHIPPING STORAGE

Must be kept at room temperature (18-30°C)

SHIPPING INSTRUCTIONS

For shipping instructions refer to

- ***Fetal Genotyping on MATERNAL PLASMA Collection Site Instructions***



**Canadian
Blood
Services**

BLOOD
PLASMA
STEM CELLS
ORGANS
& TISSUES

Edmonton Diagnostic Services Perinatal Testing Services

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SEND TO

Canadian Blood Services
Edmonton Centre
8249 114 St NW
Edmonton, AB T6G 2R8
Attention: Diagnostic Services Perinatal Laboratory

Tel: 780-431-8765
Fax: 780-431-8747