

Donor Testing

Highlighted items indicate where Fairfax Cryobank is the only sperm bank performing this test or using a more sensitive testing methodology (NAT by PCR)

GENETIC DISEASE TESTING

ALL DONORS

- Expanded Genetic Disease Testing- 280+ diseases since January 2018
 - Cystic Fibrosis - gene sequencing since January 2017
 - Beta Thalassemia - gene sequencing since January 2017
 - Alpha Thalassemia - gene sequencing since July 2018
 - Spinal Muscular Atrophy (SMA) since 2008
- Chromosome Analysis (karyotype)- All Donors
- Hemoglobin Electrophoresis - All Donors

Donor testing before Expanded Genetic Disease Testing- See below

DONOR OF ASHKENAZI JEWISH ANCESTRY:

- Tay Sachs disease
- Canavan disease
- Gaucher disease
- Bloom syndrome
- Fanconi-Amemia Type-C
- Niemann-Pick Type A
- Mucopolipidosis Type IV
- Familial Dysautonomia
- Maple Syrup Urine Type 1B and Type 3
- Familial Hyperinsulinism Type 1 ABCC8 related
- Usher Syndrome Type 1F and Type3
- Glycogen Storage Disease Type-1A
- Joubert Syndrome
- Walker Warburg Syndrome
- Nemaline Myopathy NEB related

DONORS OF FRENCH CANADIAN ANCESTRY:

- Tay Sachs Disease-upgraded to gene sequencing in 2017

DONORS OF ASIAN, MIDDLE EASTERN OR MEDITERRANEAN ANCESTRY:

- Beta Thalassemia by hemoglobin electrophoresis
 - Gene sequencing added Jan 2017
- Alpha Thalassemia by hemoglobin electrophoresis
 - Genotyping added 2015. Sequencing in 2018

DONORS OF AFRICAN, BLACK AMERICAN ANCESTRY:

- Sickle Cell disease by gene sequencing since Jan 2017
- Other hemoglobinopathies by Hemoglobin Electrophoresis

INFECTIOUS DISEASE TESTING

SEROLOGICAL TESTING

- HIV-1 and HIV-2 antibody
- Hepatitis B surface antigen and core antibody
- Hepatitis C antibody
- Cytomegalovirus (CMV) antibody
- Syphilis (RPR)
- HTLV-I and II antibody

POLYMERASE CHAIN REACTION (PCR)

- NAT TESTING
- HIV 1
- HIV 2
- HTLV I & II
- HCV
- Chlamydia
- Gonococcus
- Cytomegalovirus
- Herpes simplex virus 1 & 2 (HSV)
- Human papillomavirus (HPV)

All infectious disease testing is repeated every 6 months plus all donors undergo an extensive physical

