

Is Panorama right for me?

IF YOU WOULD LIKE TO KNOW whether your baby is at risk for certain genetic conditions, Panorama may be the right option for you. The first step is to talk with your healthcare provider.

Some women have a higher chance of their baby being affected with certain conditions like Down syndrome, especially if they:

- Are over the age of 35
- Have certain family histories
- Have abnormal ultrasound findings
- Have abnormal blood test results

However, the likelihood of having a baby with a microdeletion syndrome is the same for all pregnancies, regardless of age.

Panorama is designed for all pregnant women regardless of age with the exception of women with the following types of pregnancies:

- Multiple gestation pregnancies
- Pregnancies that are using an egg donor or a surrogate
- Pregnant women who are bone marrow transplant recipients

WHEN WILL I GET MY PANORAMA RESULTS?

Your healthcare provider will usually get your results back in 7-10 calendar days.

WHAT OTHER PRENATAL TESTS ARE AVAILABLE?

There are various other tests available from other suppliers. Traditional serum screening tests are not as accurate as Panorama and are designed to screen for fewer conditions. Diagnostic tests such as amnio or CVS can provide a definitive diagnosis and can test for more conditions, but have a slight risk of pregnancy complications including miscarriage.

1 Benn, P. Non-invasive prenatal testing using cell free DNA in maternal plasma: recent developments and future prospects. *J Clin Med*, 2014; 3:537-565.

2 Pergament E et al. Single-nucleotide polymorphism-based noninvasive prenatal screening in a high-risk and low-risk cohort. *Obstet & Gynecol* 2014; 124(2 Pt 1): 210-218.



Your healthcare provider can refer you to a genetics professional in your area. A genetics professional – either a genetic counsellor or a medical geneticist - can discuss genetic conditions in more detail, tell you about follow-up testing to confirm or rule out this condition in your baby, and answer any questions you may have about your results.

Additional information can be found online:

- Canadian Organization for Rare Disorders (CORD) <http://www.raredisorders.ca/>
- Canadian Directory of Genetic Support Groups http://www.lhsc.on.ca/Patients_Families_Visitors/Genetic_Support_Directory/index.htm
- Orphanet Canada <http://www.orpha.net/national/CA-EN/index/homepage/>
- Canadian Down Syndrome Society <http://www.cdss.ca/>
- Chromosome 22 central <http://www.c22c.org/>

This test was developed by Natera, Inc., a laboratory certified under the Clinical Laboratory Improvement Amendments (CLIA).



Genetics line:
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Website: www.lifelabsgenetics.com
To Book An Appointment:
Toll Free: 1-855-412-4495 or 1-877-507-5595 (BC)
Toll Free: 1-877-849-3637 (ON)
Online: www.lifelabs.com

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V1 | MAY2016



PANORAMA® PRENATAL SCREEN

Non-invasive DNA screen for common fetal chromosomal abnormalities



What is Panorama?

PANORAMA IS A NON-INVASIVE PRENATAL SCREENING TEST (NIPT) performed through a simple blood draw from your arm. During pregnancy, some of the DNA from the baby crosses into the mother's bloodstream. Panorama looks at this DNA to see if there is evidence of certain genetic conditions that could affect the baby's health.

WHAT DOES PANORAMA SCREEN FOR?

Panorama screens for common genetic conditions that are caused by extra or missing chromosomes in the baby's DNA:

- Down syndrome (Trisomy 21)
- Edwards syndrome (Trisomy 18)
- Patau syndrome (Trisomy 13)
- Certain sex chromosome abnormalities:
 - Turner syndrome (monosomy X)
 - Klinefelter syndrome (XXY)
 - Jacobs syndrome (XYY)
 - Triple X syndrome (XXX)
- Triploidy

In addition to these chromosomal abnormalities, you can optionally screen for five microdeletion syndromes. Panorama can also tell you the baby's gender, if you so choose.

WHAT ARE MICRODELETIONS?

A small, missing piece of a chromosome is called a microdeletion. Unlike Down syndrome, which occurs more frequently in mothers who are 35 and older, microdeletions occur in pregnancies at the same rate for mothers of any age. While many microdeletions have little impact on a child's health or life, there are some that can cause intellectual disabilities and birth defects. Panorama screens for five microdeletion syndromes associated with serious health problems:

- 22q11.2 deletion (DiGeorge) syndrome
- 1p36 deletion syndrome
- Angelman syndrome
- Prader-Willi syndrome
- Cri-du-chat syndrome

What do Panorama results tell me?

Panorama gives you a personalized risk score and tells you if the baby is at high risk or low risk for the conditions it screens for. Like other screening tests, Panorama does not provide a definitive diagnosis of the condition.

WHAT RESULTS MIGHT I GET WITH PANORAMA?

Low Risk Result: A Low Risk result indicates that it is unlikely that your baby is affected by one of the conditions on the Panorama panel. Note, however, that a low risk result does not guarantee a healthy pregnancy as Panorama is not a diagnostic test and only screens for certain conditions.

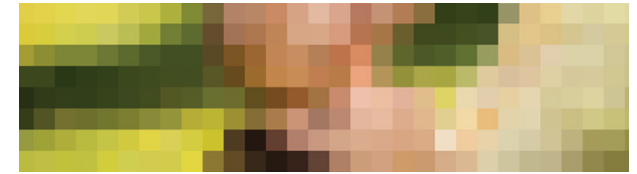
High Risk Result: A High Risk result means that there is an increased risk that your baby has the condition, but it is not certain. Invasive testing during the pregnancy, such as amniocentesis (amnio) or chorionic villus sampling (CVS), or testing after the baby is born, can tell you for certain if the baby has the condition. Speak with your healthcare provider about your follow-up options.

No Result: In a small percentage of cases, Panorama may not be able to obtain sufficient information from your blood sample to determine an accurate result. If this occurs, a second blood sample may be requested.

WHEN CAN I GET PANORAMA?

You can have this test as early as 9 weeks gestation.

How is Panorama different?



Other NIPTs cannot tell the difference between mom's and baby's DNA.



PANORAMA CAN. Because of its unique technology, Panorama is the only NIPT that can distinguish between the mom's DNA and the baby's DNA from the placenta. This enables Panorama to be a highly accurate screen.

WHY IS THIS IMPORTANT?

Fewer False Positives: Because Panorama analyzes the baby's DNA separately, it has a lower false positive rate than other NIPTs.¹

Highest gender accuracy: Panorama has the highest reported accuracy in determining the baby's gender.² Gender reporting is optional.

Triploidy: Panorama is the only NIPT that can detect triploidy, a severe chromosomal abnormality that can result in serious pregnancy complications if unmonitored.

