



# GENETIC TESTING

## WHY CHOOSE MEDEX LABORATORIES

- TARGETED TREATMENTS
- ACCURATE OUTCOMES
- EMR INTEGRATIONS
- ACCEPTS MOST INSURANCES
- PHLEBOTOMIST AVAILABLE
- QUICK TURN AROUND TIME

The reports and content within should be considered referenced suggestions. Ultimately, final medical decisions are made by your respective healthcare provider

[www.medexdiagnosticservices.com](http://www.medexdiagnosticservices.com)

## ABOUT

Medex Laboratories is a Leader in Next-Generation Sequencing whose mission is to bring comprehensive genetic information into mainstream medicine to improve healthcare for billions of people. Medex Laboratories testing provides answers to essential health questions—understanding disease risk, guiding a healthy pregnancy, or finding a diagnosis—at high quality, fast turnaround, and low prices. We strive to make testing affordable and accessible.

## HOW GENETIC TESTING MAKES A DIFFERENCE?

Inherited disorders are found in approximately 5% of the world's population or around 350 million people. To date, over 7,500 different genetic diseases have been identified, and 3,500 have a known molecular genetic background, with this number growing at an ever-increasing pace.

Caring for these disorders accounts for approximately 17% of healthcare costs. Their impact on the lives of patients and their families is indisputable, while they also present some unique challenges for health care professionals. Although the number of these diseases is sizeable, many are so rare that they're unknown to the vast majority of clinicians. Identifying those using conventional diagnostics is a process of trial and error that often yields no definitive answers.

Anything we can do to improve and speed up diagnosis not only allows us to plan the best and most cost-effective treatments, but also plays an important part in patient comfort and long-term prognosis. This is where genetic testing can truly make a difference.

## WHY DO GENETIC TESTING?

As a clinician, genetic testing can help you:

- Diagnose diseases and/or their severity
- Improve your patient's care by identifying the specific gene mutations that cause an already diagnosed disease
- Personalize your patient's care by choosing the best treatments
- Identify mutations that may pose a risk for developing a disease, or could be passed on to children

When a mutation is identified, you can make solid and accurate recommendations for your patient's treatment and clinical monitoring, as well as advise them on lifestyle choices to improve their quality of life and longevity. Close relatives of affected patients can also be screened to determine if they are at risk of developing the disease, allowing you to plan preemptive measures to mitigate their risks, and perhaps even prevent the onset of the disease entirely.

Moreover, identifying the specific gene mutation can have direct significance for the drugs used to treat the disease. In the case of mutations that inhibit the production of essential enzymes, for example, choosing medicines that compensate for the lack of these enzymes is critical. Drug dosages of any medication can also be tailored for an individual patient's metabolism, as the technology exists to sequence genes for this purpose as well.



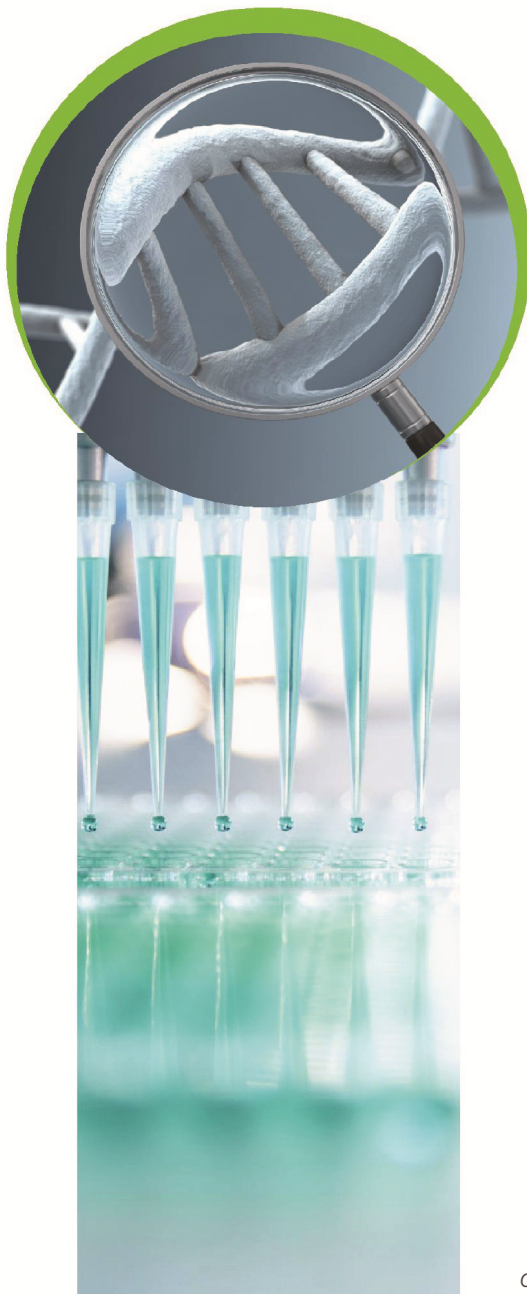
# COMPREHENSIVE, RAPID, AND HIGH-QUALITY GENETIC DIAGNOSTICS SOLUTIONS

Medex Laboratories provides high coverage panels, high-resolution CNV detection, and comprehensive coverage of clinically relevant noncoding variants.

Current state-of-the-art next-generation sequencing (NGS) technology enables rapid and cost-effective diagnostics of rare diseases. Many times genetic testing is the only solution to avoid a never-ending diagnostic odyssey.

About 2% of the genome is actually encoding genes and only a subset of genes are known to be medically relevant. Medex Laboratories' sequencing platform focuses on that portion of the genome that is clinically relevant, reducing the complexity of the sequencing process.

With improved sequencing coverage and sensitivity to detect clinically relevant mutations, we can provide higher diagnostic yield.



## MORE THAN JUST RESULTS

A quicker and more confident diagnosis, less time and money wasted cycling through various diagnostic screening methods, and, ultimately, faster paths to treatment for your patients.

A team of geneticists and clinicians prepares a comprehensive clinical statement from the sequence analysis, assisted by our Clinical Interpretation Platform. The platform allows our team to instantly query millions of genetic and medical sources. The result is actionable clinical statements from our genetic and medical experts, complete with the patient history, all the relevant test findings, interpretation of the results, and gene-specific information and research citations.

This not only benefits specialized clinicians, it also makes genetic testing more accessible for general practitioners as well, allowing more time for patient treatment and care, and less time chasing and understanding results.

What may have previously taken months or even years to diagnose using traditional diagnostic tools and genetic testing methods now takes just 3 weeks. This means a quicker and more confident diagnosis, less time and money wasted cycling through various diagnostic screening methods, and, ultimately, faster paths to treatment for your patients.

Early diagnosis through genetic testing means lives saved, as well as improved quality of life for hundreds of millions of people around the world.

## TEST INFORMATION

Description	Hereditary Genetic Disease Panel
Method	Next Generation Sequencing
Specimen	Buccal swab shipped at room temperature
Requirements	temperature
Turnaround Time	3 to 4 Weeks
Shipping	Pickup/FedEx Service Available Monday - Friday
Testing Performed	Monday - Saturday

Medex Laboratories is a full service, national diagnostic testing laboratory headquartered in Houston, Texas with concentrations in clinical diagnostics, toxicology, genetic sequencing and molecular testing. Medex Laboratories is devoted to redefining diagnostic services by providing medical practitioners and their patients with exceptional customer service paired with the most advanced and informative medical analytics to assist them in making effective treatment decisions.

Medex Laboratories fully automated laboratory utilizes state-of-the-art technologies to deliver high quality test results and service while exceeding the turnaround time requirements and demands of our physician clients. Medex Laboratories currently analyzes samples for hundreds of thousands of patients per year from providers and healthcare facilities all across the nation.

As our clients have trusted our laboratory with being an analytical and integral part of their patients' diagnosis and treatment process, we believe in respecting that trust with continuous dedication to customer satisfaction and support. We join our clients and physicians in their belief that patient care is and always will be the number one priority. Medex Laboratories' personalized support and professional service continue to exceed the expectations of our valued clients, providers and facilities. More healthcare facilities and providers, in private practices, in hospitals and in long term care facilities, are placing their trust in Medex Laboratories; and, together we are transforming advanced diagnostic information into knowledge and superior treatment options for more and more patients every day.



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