

# **U.S. Hereditary Cancer Testing Market Size, Share & Trends Analysis Report By Cancer, By Technology (Cytogenetic, Biochemical, Molecular Testing), By Test Type (Predictive Testing, Diagnostic Testing), By End-use (Hospitals, Clinics), And Segment Forecasts, 2025 to 2033**

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## **Abstracts**

### Market Size & Trends

The U.S. hereditary cancer testing market was estimated at USD 1.93 billion in 2024 and is projected to reach USD 5.76 billion by 2033, growing at a CAGR of 13.32% from 2025 to 2033. The U.S. hereditary cancer testing market is driven by growing awareness of inherited cancer risks, with 5-10% of cancers linked to germline mutations. Rising adoption of guideline-based screening from NCCN and ACOG, coupled with FDA authorization of panels, is boosting clinician confidence and payer coverage. Technological advancements such as integration of DNA/RNA sequencing, digital screening tools, and combined germline-somatic profiling are expanding clinical utility. Increasing partnerships, patient education initiatives, and insurance support are further accelerating access, positioning hereditary testing as a cornerstone of precision oncology.

In the United States, between five and ten percent of all cancers are associated with inherited mutations in cancer predisposition genes. These hereditary mutations, passed down through families, increase the risk of developing cancers such as breast, ovarian, colorectal, prostate, and others. While most of the estimated 270,000 annual breast cancer cases among women, 2,000 among men, and 20,000 ovarian cancer cases occur sporadically, a notable proportion is hereditary. This underscores the importance

of genetic testing as a tool for both early detection and preventive healthcare. The National Comprehensive Cancer Network (NCCN) has established guidelines to identify individuals most likely to carry mutations, primarily based on personal and family cancer histories. Yet, despite the strength of these guidelines, hereditary testing has historically been underutilized, partly because of inconsistent interpretation across laboratories and limited patient access.

## U.S. Hereditary Cancer Testing Market Report Segmentation

This report forecasts revenue growth at, country level and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For the purpose of this study, Grand View Research has segmented the hereditary cancer testing market report on the basis of test type, technology, cancer, and end-use:

Cancer Outlook (Revenue, USD Million, 2021 - 2033)

Lung Cancer

Breast Cancer

Colorectal Cancer

Cervical Cancer

Ovarian Cancer

Prostate Cancer

Stomach/Gastric Cancer

Melanoma

Sarcoma

Uterine Cancer

Pancreatic Cancer

Others

Technology Outlook (Revenue, USD Million, 2021 - 2033)

Cytogenetic

Biochemical

Molecular Testing

Test Type Outlook (Revenue, USD Million, 2021 - 2033)

Predictive Testing

Diagnostic Testing

End-use Outlook (Revenue, USD Million, 2021 - 2033)

Diagnostic Centers

Hospitals

Clinics

**This report can be delivered to the clients within 3 Business Days**

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