

## **Non-Invasive Prenatal Testing - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

Market Report | 2025-08-01 | 140 pages | Mordor Intelligence

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### **Report description:**

Non-Invasive Prenatal Testing Market Analysis

The non-invasive prenatal testing market size stood at USD 3.90 billion in 2025 and is forecast to reach USD 7.35 billion by 2030, translating into a robust 13.50% CAGR over the period. Broader clinical guidelines now recommend cell-free DNA screening for every pregnancy, while payer policies are easing prior-authorization hurdles, driving volume expansion across risk categories. Sequencing costs have plunged and automated workflows are cutting turnaround times, making tests more affordable for emerging markets. The FDA's 2024 final rule on laboratory-developed tests established transitional compliance that paradoxically accelerated adoption because large commercial laboratories moved quickly to standardize processes. At the same time, direct-to-consumer channels are expanding in parallel with physician referral networks, reflecting a growing willingness among expectant parents to pay out-of-pocket for early genetic insight.

Global Non-Invasive Prenatal Testing Market Trends and Insights

Rising Global Maternal Age Increasing Aneuploidy Prevalence

Advanced maternal age drives higher baseline risk for chromosomal abnormalities, causing prenatal screening volumes to rise steadily in developed economies. Universal guideline recommendations issued in 2024 removed the age-based risk threshold and repositioned cfDNA testing as first-line screening for every pregnancy. Hospitals are seeing fewer invasive procedures because expectant parents opt for a blood test that carries no miscarriage risk, opening a predictable revenue stream for laboratories.

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Large cohort studies confirm that test sensitivity remains consistent across age groups even though positive predictive value shifts upward with age. Payers find the economics attractive because earlier detection lowers lifetime treatment costs, and laboratories leverage the reliable volume to negotiate bulk reagent pricing.

#### Shift From Invasive Procedures to cfDNA Screening for Safety

Amniocentesis and chorionic villus sampling both carry tangible miscarriage risk, causing anxiety that makes non-invasive alternatives appealing. Clinical audits show cfDNA adoption cuts invasive procedure volumes by up to 80%, yet diagnostic confirmation remains available when results indicate a high likelihood of abnormality. Obstetricians note lower medicolegal exposure, while insurers see fewer claims related to procedure-linked complications. The blood-based approach enables rapid retesting if initial samples are inadequate, improving the patient experience. Importantly, safety advantages resonate in average-risk pregnancies where historical cost-benefit analyses favored no testing at all.

#### Ethical & Regulatory Concerns on Incidental Findings / Sex Selection

India's PCPNDT Act criminalizes fetal sex disclosure, forcing providers to redesign reports for local compliance. Policymakers worry that expanding panels could reveal non-paternity or maternal cancer, raising consent complexities. The Early IDENTIFY trial showed that half of non-reportable cases masked maternal malignancies, sparking debate on duty-to-warn obligations. Bioethics councils recommend incremental test roll-outs with enhanced counseling, yet region-specific restrictions slow commercial timelines. Vendors must therefore navigate a patchwork of disclosure rules that limit cross-border scale economies.

Other drivers and restraints analyzed in the detailed report include:

Falling Sequencing Costs & Automation Lowering Test Prices / Expansion of Reimbursement to Average-Risk Pregnancies / Limited Lab Infrastructure & Bioinformatics Expertise in Emerging Markets /

For complete list of drivers and restraints, kindly check the Table Of Contents.

#### Segment Analysis

In 2024, next-generation sequencing commanded 61.51% of non-invasive prenatal testing market share, cementing its reputation for analytical breadth and scalability. Rolling-circle amplification, however, is accelerating at a 15.65% CAGR, its ambient-temperature workflow suiting resource-constrained settings. The non-invasive prenatal testing market size for NGS-based assays is projected to grow steadily as laboratories leverage legacy platforms to handle rising test complexity. Meanwhile, simpler chemistries unlock new customer segments that lack capital budgets for high-end sequencers.

Digital PCR and CRISPR-enabled assays are entering pilot programs, aiming for tighter fetal-fraction quantification and improved specificity. Regulatory tightening may initially advantage entrenched NGS vendors whose systems already meet quality benchmarks, yet disruptive pricing from RCA or isothermal methodologies could pivot purchasing decisions as emerging-market volumes scale.

Whole-genome cfDNA tests held 49.53% of the non-invasive prenatal testing market size in 2024, favored for their comprehensive chromosomal coverage. Microdeletion panels are registering a brisk 14.85% CAGR, benefitting from ongoing evidence that broader variant detection adds clinical value in select cases. Aneuploidy-only assays remain popular where payers reimburse a limited menu, but their relative share is edging downward as guidelines evolve.

Bundled monogenic and carrier-status screens could redraw market boundaries by merging reproductive planning with prenatal

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surveillance. Yet reimbursement remains the gating factor; without payer endorsement, self-pay economics will cap near-term adoption despite rising consumer curiosity.

The 10-12-week window claimed 69.62% share in 2024 as first-trimester screening became standard obstetric protocol. Laboratories often pre-schedule draws during routine ultrasound visits, ensuring logistical efficiency and high patient adherence. Tests performed after 24 weeks, although a small base, are growing 16.85% annually thanks to late-pregnancy management needs such as unexplained anomalies on third-trimester scans.

Clinicians prefer early results for decision-making latitude, but late-stage applications offer reassurance in complex pregnancies where earlier screening was missed or inconclusive. Vendors are refining assays to remain sensitive despite declining fetal fraction as gestation advances, thereby broadening addressable volume.

The Non-Invasive Prenatal Testing Market Report is Segmented by Technology (Next-Generation Sequencing, and More), Test Type (Aneuploidy Screening, and More), Gestation Window (10-12 Weeks, and More), Sample Type (Maternal Plasma CfDNA, and More), Component (Instruments, and More), End User (Hospitals, and More), Distribution Channel, Application, and Geography. The Market Forecasts are Provided in Terms of Value (USD).

List of Companies Covered in this Report:

Illumina / Natera / F. Hoffmann-La Roche Ltd (Ariosa) / BGI Genomics Co. Ltd / Laboratory Corp of America Holdings / Eurofins / Revvity, Inc. / Thermo Fisher Scientific / Agilent Technologies / QIAGEN / Invitae / Myriad Women's Health Inc. / Centogene / MedGenome Labs / GenePlanet d.o.o. / Genetron Health / Berry Genomics / Ravgen Inc. / Bionano Genomics, Inc. / ARUP Laboratories /

Additional Benefits:

The market estimate (ME) sheet in Excel format /  
3 months of analyst support /

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#### 6.3.7 Revvity, Inc.

#### 6.3.8 Thermo Fisher Scientific Inc.

#### 6.3.9 Agilent Technologies Inc.

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- 6.3.10 Qiagen N.V.
- 6.3.11 Invitae Corporation
- 6.3.12 Myriad Women's Health Inc.
- 6.3.13 Centogene N.V.
- 6.3.14 MedGenome Labs Ltd
- 6.3.15 GenePlanet d.o.o.
- 6.3.16 Genetron Health
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- 6.3.20 Arup Laboratories

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