

South Africa Forensic Testing Market Rising Trends, Huge Demand, Business Strategies Hits High CAGR by 2034

WILMINGTON, DE, UNITED STATES, June 17, 2025 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, "[South Africa Forensic Testing Market](#) by Contaminant Type, Sample Type, Technology, Determinants, and End User: Opportunity Analysis and Industry Forecast, 2025–2034," The South Africa forensic testing market size valued at \$64,600.0 thousands in 2024 and is estimated to reach \$93,539.3 thousands by 2034, exhibiting a CAGR of 3.8% from 2025 to 2034.



Forensic testing refers to the application of scientific methods and technologies to analyze physical evidence in criminal, civil, and regulatory investigations. It includes disciplines such as DNA profiling, toxicology, ballistics, and digital forensics, helping to establish facts in legal cases by linking evidence to individuals, substances, or events.

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Mandatory testing in legal investigations is a major driver of the [South Africa forensic testing industry](#), ensuring steady and regulated demand for forensic services across various sectors. In cases of suspicious deaths, violent crimes, sexual assaults, and drug-related offenses, toxicology, DNA, and other forensic analyses are legally required to support prosecution and court proceedings. South African legislation mandates forensic testing to establish cause of death, determine substance involvement, or identify individuals, making it an integral part of the judicial process. This legal obligation compels both public and private sector labs to maintain operational readiness and invest in advanced testing technologies. It also promotes continuous collaboration between law enforcement agencies, forensic scientists, and judiciary. As the country strengthens its legal and forensic frameworks, especially with updates to criminal and cybercrime laws, the reliance on mandatory forensic testing is expected to grow, driving further

market expansion and modernization of testing infrastructure.

However, high costs of licensing software tools create a significant restraint on the South Africa forensic testing market growth, particularly in digital forensics and advanced data analysis. Leading forensic software platforms, such as EnCase, FTK, and Cellebrite, require substantial annual licensing fees and frequent updates, placing financial strain on government-funded forensic labs and smaller private service providers. These high costs limit the widespread adoption of cutting-edge forensic solutions, creating disparities in investigative capabilities across different regions. In many cases, forensic units must operate with outdated or less capable software, reducing the accuracy, efficiency, and scope of digital investigations. In addition, limited budgets for software training and technical support further affects the effective use of these tools. As cybercrime and complex digital evidence become more prevalent, the inability to access and maintain essential forensic software could delay case processing and weaken the overall effectiveness of South Africa forensic testing market growth.

Further, cloud forensics and blockchain analysis present the South Africa forensic testing market opportunities as cybercrime and digital transactions grow rapidly. With increasing reliance on cloud-based services and rise in cryptocurrency-related fraud, law enforcement agencies and financial institutions are seeking advanced forensic capabilities to investigate and trace digital footprints across decentralized networks. Cloud forensics enables investigators to extract, preserve, and analyze data stored on remote servers, which is critical in cases involving online fraud, data breaches, and cyberstalking. Similarly, blockchain analysis tools help track illicit transactions, identify wallet owners, and uncover links between suspects in crypto-based crimes. As South Africa strengthens its cybercrime legislation and more businesses adopt digital finance, the demand for expertise in these specialized areas is expected to grow. This creates investment opportunity in digital forensics infrastructure, cross-border collaboration, and development of local talent skilled in handling complex digital investigations.

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The South Africa forensic testing market is segmented into type of contaminant, sample type, technology, determinants, end user, and region. By type of contaminant, the market is divided into pathogens, pesticides and herbicide residues, genetically modified organism (GMO), allergens, heavy metals, mycotoxins, food adulterants and additives, radioactive contaminants, and others. By sample type, the market is divided into pharmaceuticals and healthcare, medical devices, food and beverage, environmental safety, nuclear, and chemical industries. By technology, the market is divided into molecular technology, spectroscopy, chromatographic techniques, microscopy and imaging, immunology, isotopic analysis, GM counters, liquid scintillation counting, digital forensic tools, field testing kits, and others. By determinants, the market is divided into biological determinants, trace/chemical substances, digital forensics, and other determinants. By end user, the market is divided into law enforcement agencies, private forensic laboratories, healthcare institutions, employers/private organizations, and

individual/personal use. By region, the market is divided into Gauteng Province, Mpumalanga, Limpopo, Northwest, Free State, Western Cape Province, KwaZulu-Natal Province, and Rest of SA Province.

By type of contaminant, the market is segmented into pathogens, pesticides and herbicide residues, genetically modified organism (GMO), allergens, heavy metals, mycotoxins, food adulterants and additives, radioactive contaminants, and others. The pathogens segment accounted for a major share in the South Africa forensic testing market size in 2024 and is expected to grow at a significant CAGR during the forecast period, owing to rise in incidence of foodborne diseases, bioterrorism concerns, and increase in demand for microbial identification in forensic and food safety investigations.

According to South Africa forensic testing market trends, based on sample type, the market is segmented into pharmaceuticals and healthcare, medical devices, food and beverage, environmental safety, nuclear, and chemical industries. The pharmaceuticals and healthcare segment accounted for a major share in the South Africa forensic testing market in 2024 and is expected to grow at a significant CAGR during the forecast period, owing to increase in cases of drug adulteration, counterfeit medicines, and the growing need for toxicological and quality assurance testing in clinical and forensic investigations.

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According to South Africa forensic testing market analysis, based on technology, the market is segmented into molecular technology, spectroscopy, chromatographic techniques, microscopy and imaging, immunology, isotopic analysis, GM counters, liquid scintillation counting, digital forensic tools, field testing kits, and others. The molecular technology segment accounted for a major share in the South Africa forensic testing market in 2024 and is expected to grow at a significant CAGR during the forecast period, owing to its high precision, sensitivity, and ability to detect trace levels of DNA and RNA, making it essential for criminal investigations, disease detection, and biological evidence analysis.

By determinants, the market is segmented into biological determinants, trace/chemical substances, digital forensics, and other determinants. The biological determinants segment accounted for a major share in the South Africa forensic testing market in 2024 and is expected to grow at a significant CAGR during the South Africa forensic testing market forecast period, owing to rise in reliance on DNA profiling, blood analysis, and other biological evidence in criminal investigations, coupled with technological advancements enhancing the speed and accuracy of biological testing.

By end user, the market is segmented into law enforcement agencies, private forensic laboratories, healthcare institutions, employers/private organizations, and individual/personal use. The law enforcement agencies segment accounted for a major share in the South Africa forensic testing market in 2024 and is expected to grow at a significant CAGR during the forecast

period, owing to increase in crime rates, increased reliance on forensic evidence for case resolution, and ongoing government investments to strengthen forensic capabilities and infrastructure within law enforcement agencies.

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By region, the market is divided into Gauteng Province, Mpumalanga, Limpopo, Northwest, Free State, Western Cape Province, KwaZulu-Natal Province, and Rest of SA Province. The Gauteng Province accounted for a major South Africa forensic testing market share in 2024 and is expected to grow at a significant CAGR during the forecast period, owing to its high population density, increased crime rates, and presence of well-established forensic laboratories, research institutions, and law enforcement agencies driving demand for forensic testing services.

Players operating in the South Africa forensic testing market have adopted various developmental strategies to expand their South Africa forensic testing market share, increase profitability, and remain competitive in the market. The key players profiled in the South Africa forensic testing market report includes SGS SA, Bureau Veritas S.A., Merieux Nutrisciences Corporation, AsureQuality Ltd., Microbac Laboratories, Inc., Interlab, Beyond Forensics, Peter Johnson Laboratories, Food Consulting Services, and National Analytical Forensic Services.

Key Takeaways

By contaminant type, the pathogen segment dominated the market in 2024.

By sample type, the pharmaceuticals and healthcare segment dominated the market in 2024.

By technology, the molecular technology segment dominated the market in 2024.

By determinants, the biological determinants segment dominated the market in terms of revenue in 2024.

By end user, the law enforcement agencies segment dominated the market in 2024.

By region, Gauteng dominated the market in terms of revenue in 2024. However, Free State is anticipated to grow at the highest CAGR during the forecast period.

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