

# Key Driver of the Oxidative Stress Assay Market in 2025: Growing Chronic Disease Cases Fueling Market Expansion

*The Business Research Company's Key Driver of the Oxidative Stress Assay Market in 2025: Growing Chronic Disease Cases Fueling Market Expansion*

LONDON, GREATER LONDON, UNITED KINGDOM, March 27, 2025  
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Oxidative Stress Assay Global Market Report 2025 - Market Size, Trends, And Global Forecast 2025-2034

Are you aware of the rapid growth in the [oxidative stress assay market size](#)?

This oxidative stress assay market grew from \$0.96 billion in 2024 to an impressive \$1.05 billion in 2025 at a compound annual growth rate CAGR of 10.1%.

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It will grow to \$1.53 billion in 2029 at a compound annual growth rate (CAGR) of 9.8%.

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This significant growth during the historical period can be attributed to the growing prevalence of chronic diseases, rising awareness of oxidative stress in aging, increasing research in drug discovery and development, advancements in biotechnology and diagnostics, and an expanding demand for personalized medicine.

But that's not all, market forecasts predict further

exponential growth. The oxidative stress assay market size is set to grow to \$1.53 billion in 2029 at a CAGR of 9.8%. This future growth can be attributed to a number of factors such as increasing focus on preventive healthcare, a growing geriatric population, advancements in biomarker discovery, increased funding for research in oxidative stress-related diseases, and a rising adoption of personalized treatment approaches. Future industry trends include advancements in high-throughput screening technologies, the integration of artificial intelligence for data analysis, development of portable and point-of-care diagnostic devices, and more use of microfluidic devices for assays, alongside the enhancement of the sensitivity and specificity of assay kits.

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But what is driving this massive growth?

One primary factor is the increasing prevalence of chronic diseases. Chronic diseases are long-lasting conditions which persist for a year or more, requiring ongoing medical attention and potentially limiting daily activities. Factors behind the increasing prevalence of chronic diseases are many, ranging from modern lifestyle changes and demographic shifts to environmental influences. The oxidative stress assay helps detect cellular damage linked to chronic diseases and can also monitor the effectiveness of treatments targeting oxidative stress.

For instance, in June 2023, according to a report published by Kidney Research UK, approximately 7.2 million people in the UK were living with chronic kidney disease, representing over 10% of the population. By 2033, this number is projected to rise to 7.61 million, thereby driving the growth of the oxidative stress assay market.

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What are some key players in this burgeoning market?

Major companies operating in the oxidative stress assay market include Merck KGaA, Thermo Fisher Scientific, Danaher Corporation, Labcorp Holdings Inc., Promega Corporation, Eagle Biosciences, Genova Diagnostics, Cayman Chemical, Enzo Biochem Inc., RayBiotech Inc., R&D Systems Inc., Santa Cruz Biotechnology Inc., Abnova Corporation, MyBioSource.com, CliniSciences Group, and others.

Looking for the latest trends?

Major companies operating in the oxidative stress assay market are focusing on innovative solutions such as the development of measures for oxidative stress to improve diagnostic capabilities. Take Memphis, an Australia-based reproductive biotechnology company, for example. In October 2024, Memphis introduced the RoXsta system, a revolutionary tool for measuring oxidative stress, offering rapid and accurate results in just six minutes.

And how is the market segmented?

- By Product: Consumables and Instruments
- By Type: Cell-Based Assays, Acellular Assays, Animal Models
- By Technology: Spectrophotometry-Based Assays, Fluorescence-Based Assays, Chemiluminescence-Based Assays, Electrochemical Assays
- By Application: Drug Discovery And Development, Nutraceutical And Food Analysis, Cosmetics And Personal Care Products, Environmental Monitoring

- By End User: Pharma And Biotech Companies, Academic Research Institute, Clinical Laboratories, Contract Research Organizations, Other End Users

These are then subsegmented:

- By Consumables: Reagents, Kits, Assay Plates

- By Instruments: Spectrophotometers, Microplate Readers, Electrochemical Analyzers

Concerned about regional growth?

North America was the largest region in the oxidative stress assay market in 2024. However, Asia-Pacific is expected to be the fastest-growing region in the forecast period. Other regions covered in the oxidative stress assay market report are Western Europe, Eastern Europe, South America, Middle East, and Africa.

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