

# Traumatic Brain Injury Biomarkers Market Trends 2025-2029: Regional Outlook and Sizing Analysis

*The Business Research Company's  
Traumatic Brain Injury Biomarkers Global  
Market Report 2025 – Market Size,  
Trends, And Global Forecast 2025-2034*

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Traumatic Brain Injury Biomarkers Market Growth Forecast: What To Expect By 2025?

The [market size for biomarkers](#) related to traumatic brain injuries has seen significant growth in

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recent years. The market, which will rise from \$1.13 billion in 2024, is expected to reach \$1.38 billion in 2025 with a compound annual growth rate (CAGR) of 22.1%. This growth experienced during the historical period is due to several factors, including the increase in road accident incidents, heightened awareness on brain health, the rise in visits to emergency rooms, an increase in TBI cases related to military activities, and an expansion in diagnostic alternatives.

Over the next few years, it is predicted that the market size

for traumatic brain injury biomarkers will experience significant expansion. Projections suggest it will reach \$3.03 billion by 2029, with a compound annual growth rate (CAGR) of 21.7%. Factors contributing to this anticipated growth during the forecast period include a heightened demand for swift diagnostic tools, an upswing in neurological research investment, an increased interest in personalized medicine, a surge in clinical trials focusing on brain injury biomarkers, and elevated healthcare expenditure. Looking into the forecast period, key market trends will include advanced proteomic platform technology, groundbreaking developments in blood-based biomarker detection, the creation of handheld diagnostic devices, research advancements into

neuroinflammation markers, and the incorporation of artificial intelligence within biomarker analysis.

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### What Are Key Factors Driving The Demand In The Global Traumatic Brain Injury Biomarkers Market?

The traumatic brain injury biomarkers market is anticipated to expand due to the escalating number of road accidents. These incidents, often unpredictable and sudden, lead to injury and damage, commonly necessitating immediate medical help. The growth in private vehicle usage owing to urbanization and motorization contributes to the rise in road accidents. Traumatic brain injury biomarkers help in accident care by facilitating quick and precise evaluations of head injuries. By identifying specific proteins in the blood, these biomarkers allow for prompt diagnosis, thus aiding doctors in making swift treatment choices resulting in better patient outcomes during emergencies. For example, a report by the European Commission on road safety, a regulatory body based in Luxembourg, revealed that total road fatalities in 2022 escalated to 20,634 from 19,917 in 2021. Consequently, the uptick in road accident numbers fuels the progress of the traumatic brain injury biomarkers market. The growth of the traumatic brain injury biomarkers market is also anticipated due to the growing adoption of personalized medicine, largely influenced by the increasing demand for treatment strategies custom-made for individuals. Personalized medicine, designed according to a patient's genes, environment, and lifestyle, enhances healthcare results. Advancements in genomic technologies make precise recognition of genetic variations possible, allowing for individualized treatments. Traumatic brain injury biomarkers aid this process by pinpointing specific biological markers related to brain injuries, enabling personalized treatment plans and enhancing patient recovery outcomes. For example, the U.S. Food and Drug Administration (FDA) approved 26 new personalized medicines in 2023, as reported by the Personalized Medicine Coalition (PMC), a nonprofit organization based in the US. The number was a significant jump from the 12 approved in the prior year. Thus, the escalating acceptance of personalized medicine is spurring the growth of the traumatic brain injury biomarkers market.

### Who Are The Leading Players In The Traumatic Brain Injury Biomarkers Market?

Major players in the Traumatic Brain Injury Biomarkers Global Market Report 2025 include:

- F. Hoffmann-La Roche Ltd
- Thermo Fisher Scientific Inc.
- Abbott Laboratories
- Siemens Healthineers AG
- Biogen Inc.
- BioMérieux S.A.
- DiaSorin S.p.A.
- Abcam Limited
- Fujirebio Inc.

- Meso Scale Diagnostics (MSD)

## What Are The Upcoming Trends Of Traumatic Brain Injury Biomarkers Market In The Globe?

Leading companies involved in the traumatic brain injury biomarker sector are channeling their efforts towards the creation of novel solutions, such as a laboratory-oriented blood test, to enhance concussion evaluation and diagnostic accuracy and speed. This form of blood test serves as a diagnostic instrument that gauges particular biomarkers found in blood to determine the existence and severity of brain damage. This, in turn, facilitates more prompt and objective clinical evaluations. A prime example is Abbott Laboratories, a healthcare company from the United States, which rolled out the Alinity i and Architect i1000SR lab tests in June 2025. These tests focus on two crucial biomarkers: glial fibrillary acidic protein (GFAP) and ubiquitin carboxy-terminal hydrolase (UCH)-L1. They assist medical professionals in assessing suspected concussions within a 12-hour window post-injury, all while delivering lab results in a mere 18 minutes. This not only allows for quicker decisions in emergency situations but also minimizes the need for unnecessary CT scans. This breakthrough grants doctors a reliable technique for identifying patients potentially suffering from traumatic brain injuries and presents a considerable leap forward in providing more rapid, evidence-driven care within ER departments.

## Analysis Of Major [Segments Driving The Traumatic Brain Injury Biomarkers](#) Market Growth

The traumatic brain injury biomarkers market covered in this report is segmented

- 1) By Type: Protein Biomarkers, Genetic Biomarkers, Metabolomic Biomarkers
- 2) By Sample Type: Blood-based, Cerebrospinal Fluid (CSF)-Based, Urine-Based
- 3) By Application: Diagnosis, Prognosis, Monitoring Treatment Response
- 4) By End Use: Hospitals And Clinics, Diagnostic Laboratories, Research Institutes

### Subsegments:

- 1) By Protein Biomarkers: Glial Fibrillary Acidic Protein (GFAP), Ubiquitin C-Terminal Hydrolase L1 (UCH-L1), S100 Calcium Binding Protein B (S100B), Neuron-Specific Enolase (NSE)
- 2) By Genetic Biomarkers: Apolipoprotein E (APOE) Genotyping, Brain-Derived Neurotrophic Factor (BDNF) Polymorphism, Interleukin-6 (IL-6) Gene Variants, Tumor Necrosis Factor-Alpha (TNF- $\alpha$ ) Polymorphism
- 3) By Metabolomic Biomarkers: Lactate, Creatine, Choline, N-Acetylaspartate (NAA)

View the full traumatic brain injury biomarkers market report:

<https://www.thebusinessresearchcompany.com/report/traumatic-brain-injury-biomarkers-global-market-report>

## Which Region Is Expected To Lead The Traumatic Brain Injury Biomarkers Market By 2025?

In the 2024 Traumatic Brain Injury Biomarkers Global Market Report, North America held the leading position. However, the forecast for the upcoming period anticipates the fastest growth in the Asia-Pacific region. The report encompasses various regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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