

Protein Stability Analysis Market Size, Share & Trends Analysis Report By Product (Instruments, Software), By Technique (DSC, DSF), By End Use (CROs), By Region, And Segment Forecasts, 2020 - 2026

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Abstracts

The global protein stability analysis market size is expected to reach USD 2.0 billion by 2026, expanding at a CAGR of 10.8%, according to a new report by Grand View Research, Inc. Protein stability analysis is an essential step in therapeutics stability studies that enables the assessment of factors causing aggregation and degradation of proteins. This analysis keeps a check on the biologic activity, quality, and product safety of biopharmaceuticals. The recent approvals of recombinant protein therapeutics increase the demand for this analysis during the drug development programs.

Rising R&D in the biopharmaceuticals arena has pronounced the demand for protein stability protocols. The drug manufacturers are adopting the stability-indicating methods for degradation pathway analysis and stress testing for the development of effective and safe therapeutics. Moreover, government agencies are encouraging the drug safety programs by raising funds in the field of proteomics industry, which in turn, surge the adoption of stability analysis.

For instance, in January 2018, funding of USD 18 million from the Genome Canada and Genome BC supported the protein research of the University of Victoria, Canada. Besides, key companies are also entering into collaborations with the venture capitalists for funds to expand their stability analysis portfolio.

Ionic liquids are extensively applied in biological systems as environmentally friendly solvents. It is crucial to analyze the effect of ionic liquids over protein stability as it is helpful in the analysis of biological reaction processes. A study published in April 2019,

evaluated the thermodynamics of protein stability in ionic liquids by the utilization of Fluorine-19 nuclear magnetic resonance spectroscopy. Such studies are expected to increase the adoption of protein stability techniques over the forecast period.

Further key findings from the report suggest:

Reagents and assay kits accounted for the largest share in 2019 owing to frequent usage of these products and low cost associated with them as compared to other product types

Broadening application of analytical instruments that are designed to assess several stability-indicating parameters using ultra-low sample volumes at high speed drives the instrument segment with the fastest CAGR

Differential Scanning Calorimetry (DSC) held the largest revenue share in 2019 due to numerous advantages of DSC over other determination methods

These benefits include simple sample preparation, easy implementation of DSC in both solid and liquid samples, and determination of thermodynamic parameters

Differential Scanning Fluorimetry (DSF) technique is expected to register the fastest growth rate due to the rising implementation of nanoDSF technique in analytical studies

This is attributive to the fact that nanoDSF rapidly and reliably determines the melting point of crude extracts, thus eliminating the requirement for cost and time-intensive protein analysis steps

Pharmaceutical and biotechnology companies dominated the protein stability analysis market in 2019 due to the presence of well-established drug manufacturers that are capable of performing in-house production of biologics

Contract Research Organizations (CROs) are anticipated to witness a lucrative growth rate during the forecast period

CROs provide a range of capabilities in protein engineering with integrated platforms and technologies across various geographical regions to support the

development of recombinant protein therapeutics

A large number of proteomics projects conducted in U.S. and high focus on proteomics research activities by national agencies marks the dominant share of North America

Asia Pacific is expected to witness the fastest growth rate owing to the rising number of conferences and events conducted to raise awareness about the products available for stability analysis

Key players such as Enzo Biochem, Thermo Fisher, PerkinElmer, NanoTemper, and GE Healthcare, have adopted several strategic initiatives to reinforce their market presence.

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