

Global Stable Isotope Labeled Biomolecules Market Data Survey Report 2025

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Abstracts

Summary

An important tool for high-resolution structure determination for NMR spectroscopy is the use of stable isotopically labeled biomolecules. By either selectively or uniformly incorporating stable isotopes into proteins, the user is able to significantly reduce the complexity of their spectra. D Labeled Biomolecules, ^{15}N , and deuterium are the most common isotopes incorporated into proteins. Microbial expression systems, cell-free extracts, peptide synthesis and custom synthesis provide a variety of options for accomplishing the incorporation of the labels. Microbial expression systems are cell-based protein expression systems in which the microbes are grown in either a defined or complex media with D Labeled Biomolecules labeled glucoses and ^{15}N Labeled Biomolecules labeled ammonium salts as the sole sources of carbon and nitrogen respectively. Ease of use, adaptability and high protein yields have made these expression systems the most popular technique for stable isotope incorporation. Cell-free extracts and custom synthesis also present their own individual advantages with the use of uniformly or selectively labeled amino acids. Cell-free extracts allow the user to more readily implement high-throughput in vitro protein expression as many proteins are difficult to express in vivo due to complications such as toxicity. Custom synthesis allows for unique, site-specific incorporation of isotopes into peptides allowing the user to study distinct structural regions.

The global Stable Isotope Labeled Biomolecules market will reach Volume Million USD in 2017 with CAGR xx% 2018-2025. The main contents of the report including:

Global market size and forecast

Regional market size, production data and export & import

Key manufacturers (manufacturing sites, capacity and production, product specifications etc.)

Average market price by SUK

Major applications

Key manufacturers are included based on manufacturing sites, capacity and production, product specifications etc.:

Cambridge Isotope Laboratories

Sigma-Aldrich

Thermo Fisher Scientific

LGC Standards

Toronto Research Chemicals

IsoLife

WITEGA Laboratorien

Omicron Biochemicals

Icon Isotopes

Medical Isotopes

Major applications
as follows:

Scientific Research

Medical

Industrial

Others

Regional market size, production data and export & import:

Asia-Pacific

North America

Europe

South America

Middle East & Africa

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