

# Global Stable Isotope Labeled Biomolecules Market Analysis 2015-2019 and Forecast 2020-2025

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# **Abstracts**

## **SNAPSHOT**

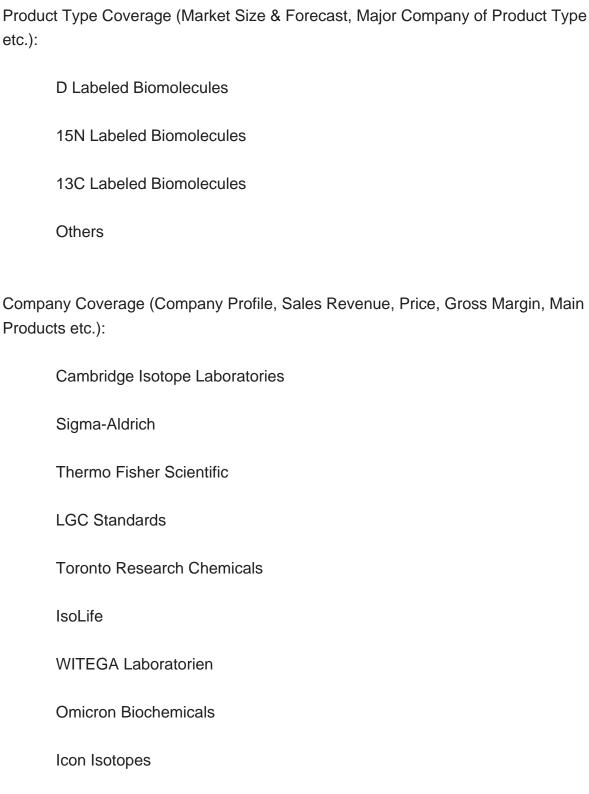
An important tool for high-resolution structure determination for NMR spectroscopy is the use of stable isotopically labeled biomolecules. By either selectively or uniformly incorporating stable isotopes into proteins, the user is able to significantly reduce the complexity of their spectra. D Labeled Biomolecules, 15N, 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 cellbased protein expression systems in which the microbes are grown in either a defined or complex media with D Labeled Biomolecules labeled glucoses and 15N 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. Cellfree 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 size is estimated at xxx million USD with a CAGR xx% from 2015-2019 and is expected to reach xxx Million USD in 2020 with a CAGR xx% from 2020 to 2025. The report begins from overview of Industry Chain structure, and describes industry environment, then analyses market size and forecast of Stable Isotope Labeled Biomolecules by product, region and application, in addition, this report introduces market competition situation among the vendors and



company profile, besides, market price analysis and value chain features are covered in this report.

etc.):



Medical Isotopes



Application Coverage (Market Size & Forecast, Different Demand Market by Region, Main Consumer Profile etc.):





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