

# **Conjugation and Labeling Services Market: Focus on Protein Labeling, Peptide Labeling, Small Molecule Conjugation and Antibody Conjugation: Distribution by Type of Molecule Supported (Proteins, Peptides, Small Molecules, Antibodies and Other Molecules), Type of Molecular Conjugate / Label (Polymers, Haptens, Enzymes, Fluorescent Tags, Bead Coupling / Particle Conjugates, Quantum Dots, Isotopes and Other Molecular Conjugates / Labels), and Key Geographical Regions (North America, Europe, Asia-Pacific, Middle East and North Africa, and Latin America): Industry Trends and Global Forecasts, 2023-2035**

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## **Abstracts**

The global conjugation and labelling services market is expected to reach USD 9,000 million in 2023 anticipated to grow at a CAGR of 10.2% during the forecast period 2023-2035.

The process of conjugation involves the creation of a stable hybrid by combining distinct entities, commonly incorporating molecules like proteins, antibodies, peptides, or small molecules. This amalgamation can occur through various methods, including the utilization of haptens, enzymes, isotopes, fluorescent tags, carrier proteins, polymers, particle conjugates, and photoreactive molecules. Particularly within the domain of bioconjugation, at least one of these entities involved is a biomolecule, such as a

protein or antibody. The synergy achieved through these conjugates and biomolecules yields unique functionalities that are often challenging to attain individually. These functionalities offer enhancements in various aspects such as membrane permeability, target specificity, circulation time, and overall improvement in pharmacokinetic properties.

An important facet of bioconjugation arises when these modifications facilitate detection, either directly or indirectly, in bioimaging and immunoassays. This facet is commonly referred to as biomolecule labeling. In current industrial applications, a wide array of labeling approaches, encompassing fluorescent and isotopic labeling, are employed for protein profiling. These methods enable the quantification of compounds and the visualization of intricate biological processes.

In recent years, the pharmaceutical industry has increasingly recognized the potential of these complex entities across diverse applications. These applications span from the development of conjugated drug therapeutics and advanced drug delivery systems to disease diagnosis, the creation of diagnostic tools, and high-throughput screening.

The market for conjugation and labeling services has experienced substantial growth, owing to the escalating demand for conjugated biomolecules in research and development endeavors. Numerous global entities are actively engaged in providing proficient antibody conjugation services specifically for research purposes. This burgeoning demand, coupled with the multifaceted applications, anticipates significant expansion in the conjugation and labeling services market in the foreseeable future.

## Report Coverage

An executive summary of the key insights captured in our research. It offers a high-level view on the current state of conjugation and labeling services market and its likely evolution in the mid-long term.

A general overview of conjugation and labeling of biomolecules, highlighting the various advantages of biomolecule conjugation and labeling. It also provides details on the different types of biomolecular conjugates and labels. Additionally, it concludes with a discussion on various applications of conjugated and labeled biomolecules in the biotechnology and pharmaceutical industry.

Detailed assessment of the overall market landscape of the companies offering conjugation and labeling services, based on several relevant parameters, such

as year of establishment, company size, location of headquarters, type of molecule(s) supported, type of molecular conjugate(s) / label(s) and conjugation service(s) offered.

A detailed company competitiveness analysis of conjugation and labeling service providers based on company strength (in terms of years of experience and company size) and service strength (in terms of type of molecule(s) supported, type of molecular conjugate(s) / label(s) and conjugation service(s) offered).

Detailed profiles of prominent players (shortlisted based on a proprietary criterion) offering conjugation and labeling services, located across North America, Europe and Asia-Pacific. Each profile features a brief overview of the company, recent developments and an informed future outlook.

A detailed analysis of the various partnerships inked between stakeholders engaged in this domain, since 2018, covering acquisitions, service agreements, product development agreements, technology licensing agreements, and other relevant agreements.

A detailed analysis of recent events (webinars / conferences / seminars / meetings / symposiums / summits) that were organized for stakeholders in the bioconjugation domain, based on several relevant parameters, such as year of event, event platform, type of event, geography, key focus areas, most active event organizers, active industry and non-industry players (in terms of number of speakers), seniority level of event speakers and geographical mapping of upcoming events.

Detailed information on the affiliated trends, key drivers and challenges, under a reliable SWOT framework. The chapter includes a Harvey ball analysis, highlighting the relative impact of each SWOT parameter on the overall conjugation and labeling services market.

A comprehensive market forecast and opportunity analysis, highlighting the future potential of the market till the year 2035. We have segregated the current and upcoming opportunity based on type of molecule supported (proteins, peptides, small molecules, antibodies and other molecules), type of molecular conjugate / label (polymers, haptens, enzymes, fluorescent tags, bead coupling / particle conjugates, quantum dots, isotopes and other molecular conjugates /

labels), and key geographical regions (North America, Europe, Asia-Pacific, Middle East and North Africa, and Latin America).

### Key Market Companies

AltaBioscience

Bachem

Bio-Synthesis

Cayman Chemical

CliniSciences

Eurogentec

GBI

Mimotopes

Peptide Institute

piCHEM

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