API Chemical Modification

Industry estimates indicate that over 80% of new chemical entities exhibit low solubility, low bioavailability, and/or low or inconsistent dissolution rates. Effectively addressing these drug solubility, bioavailability, and dissolution rate issues is critical to advancing compound development and providing patients with the therapeutic benefits needed for pharmaceutical products. The Enhanced Bioavailability services provided by **CD Formulation** make us a leader in addressing issues of low solubility, low bioavailability and dissolution rates. Our end-to-end enhancement solutions combine the full capability to take a compound from concept to commercialization, minimizing project complexity, timelines and risk.

Fig.1 API Chemical Modification

Our Services

We help our clients with the ultimate manufacturability of their drug products to avoid time-consuming reformulations and ensure fast time-to-market, offering the following services:

- pH Modification Drug Molecular Services
- Drug Salt Formation Services
- Drug PEGylation Services
- Different Groups of Precursor Drug Design Services

As a leading expert in drug formulation development and dosage form optimization, **CD Formulation** provides you with a one-stop shop for drug bioavailability and solubility based on API properties and customer development goals. If you have poorly soluble or insoluble drugs, please contact our staff and we will determine the most appropriate way to assist with your drug development.

The Advantages of Our Services

- Experienced experimental technicians, exquisite experimental operation level, strict experimental control system, fast data results delivery cycle, to ensure the objective and reliable results.
- Comprehensive state-of-the-art equipment can achieve high capacity and rapid turnover, support development, stability and mass release.
- Develop internal common methods for various technologies without the need to develop methods from scratch.
- Long-term expertise in on-site solid-state characterization to support the development of custom and proprietary active pharmaceutical ingredients.

References

1. Anderson, B.D. and Conradi, R.A. Predictive relationships in the water solubility of salts of a nonsteroidal anti-inflammatory drug. *J Pharm Sci.* 1985, 74 (8): 815–820.
2. Gould, P. L. Salt selection for basic drugs. *Int J Pharm*. 1986, 33: 201–217.

Source: https://www.formulationbio.com/api-chemical-modification-services.html