

Interested in Continuous Flow Chemistry? Adesis Can Help.

In recent years, there has been an exponential growth in the use of continuous flow chemistry as a solution to challenging synthetic problems thanks to its efficiency, reliability, scalability, and safety across different types of chemistries including:

- Low temperature reactions
- Rapid reactions
- Heterogeneous catalysis
- Photochemistry
- Sonochemistry
- Electrochemistry and others.

With our expert staff's **in-depth knowledge of continuous flow chemistry and engineering**, and Adesis' **substantial investment in three automated continuous flow chemistry systems**, we are prepared to assist you with all your continuous flow chemistry needs.

Superior Monitoring and Control

Flow chemistry provides a **safer and significantly more controlled** chemical environment compared to that offered by traditional synthetic chemistry methods thanks to the **ability to monitor and control reaction conditions** such as temperature, pressure, stoichiometric ratios and other parameters.

Unparalleled Optimization Potential

Continuous flow chemistry has **virtually no capacity limit**. The raw materials enter from a reservoir, the reaction occurs, and the completed product is isolated on the other side, or, in some cases, immediately taken to the next step. This **increases yield, purity and reproducibility** and contributes to a **reduction in cost and increase in environmental health and safety**.

Saving You Time and Money

Continuous flow chemistry simplifies the optimization of chemical reactions on small scale that can be **easily translated to larger manufacturing scale**, simplifying the transition from small-scale laboratory chemistry to the manufacturing level. Compare this technique with traditional process chemistry, in which a feasible synthetic route is first discovered and optimized on the laboratory scale before being gradually increased to the manufacturing level. Because this method requires batch-specific reactors and re-optimization at nearly every increase in chemical scale, it is time consuming, labor intensive and costly.

The Flow Chemistry Experts

Utilizing continuous flow chemistry can **optimize your chemical processes**, which could lead to significant reaction improvements and cost reductions in labor, raw materials and waste. Whether you have a small-scale reaction that needs optimization or are hoping to bring your chemical process to the manufacturing level, **Adesis is in a prime position to help you**. Please reach out to us for more details!



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Trust Us With Your Chemistry.

Contact our team to explore how we can solve your pharmaceutical process development problems.