



## Chemical Synthesis

### → Challenge

A Chicago-based law firm representing a generic pharmaceutical company came to PharmaForensics Laboratories for help in a Hatch-Waxman litigation matter. The law firm asked us to replicate a multi-step chemical synthesis and analyze the purity of the final compound to assist in demonstrating their position to the court. The project had a deadline of three weeks.

### → Solution

To complete the assignment on time, we tapped our network of skilled scientists to identify an experienced synthetic chemist to lead the project. The chemist worked under the direction of PharmaForensics Laboratories' Dr. Kittendorf. The team completed the multi-step synthesis within the required time frame and analyzed the final compound using nuclear magnetic resonance (NMR). We also developed an analytical high-performance liquid chromatography (HPLC) method to evaluate the purity of the final synthetic compound. Finally, we drafted a report detailing the synthetic methods, yields, intermediate analysis, and analytical evaluation of the final compounds, which was submitted to the client.

### Results

Our ability to respond to short deadlines ensured the success of this project. In situations like this, PharmaForensics Laboratories leverages our growing network of skilled scientists to deploy experimental skill sets to effectively complete a project.

In this case, the attorney was not only impressed with the reported results, but also with our capability to respond to the scope and time pressures of the assignment. The law firm has continued to engage our services in additional projects. •

### Talk to PharmaForensics Laboratories

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