



Case Study

Low yield challenges of atypical reaction



Project challenge:

Seven stage sequence involving protection-deprotection sequence, labile intermediates and significant by-product formation with low yield.

Route scouting to come up with a new route that furnished the NCE in three chemical conversions

Solution design:

Salient features of the approach:

- Route scouting to come up with a new route that furnished the NCE in three chemical conversions, thus reducing the cycle time of development of NCE
- Identification of suitable protecting groups and deprotecting reagents and reaction conditions to optimize the yield
- Route developed was implemented in manufacturing plant and process validation performed
- Effective purification techniques including crystallization resulted in control of unknown impurities and generated quality product, meeting ICH specifications

Conclusion:

This case study exemplifies the technical abilities of our team in route scouting and developing a process that can be implemented on scale and creating value to the customer in terms of cost and time.

Thank You



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Mail us at
contactapsl@aurigeneservices.com