AURIGENE
PHARMACEUTICAL SERVICES

Case Study

Route scouting for an enantiomerically enriched Isoflavone

Project challenge:

Redesign of synthetic route, obtaining the highest enantiomeric purity, Improving yields, purication and isolation.

Solution design:

- Telescoping of the synthetic route made it possible to reduce the synthesis stages from eight to four
- The diastereomeric salt formation was a key step in this route. The process improvement led to an improved yield (NLT 90%) and highest purity and enantiomeric excess (ee) of approximately 99.5%
- Desired PSD and polymorph were obtained by identifying the optimum crystallization conditions

Conclusion:

Reduction in batch cycle time was achieved by telescoping of reactions.

Thank You

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