

Arrow Pharma Services LLC

Analytical Solutions for Drug Development



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Background

- Director of Method Development, Eurofins AvTech
- Group leader, Drug Substance Analytical, Pharmacia
- Scientist, Drug Product, Upjohn Company
- PhD in Physical Chemistry, Indiana University
- BS in Chemistry, Eastern Illinois University

Arrow's Objectives

- Provide leadership for new drug projects
- Connect drug sponsors to competent lab resources
- Conduct due diligence investigations for potential sponsors of new drug entities
- Aid in laboratory setup, qualification, training of employees

Pharma Areas of Expertise

- Experience with Active Pharmaceutical Ingredients
 - Characterization of intermediates and API
 - Process Development analytical support
 - Selection of salt form, crystal form
- Experience with Drug Products
 - Analytical development and specs support
 - Modified release dosage forms

Other Experience

- Combination medical devices (such as drug-eluting cardiac stents)
- Implantable drug pumps (like intrathecal delivery for anti-spasmodic drugs)
- Diagnostic solutions (for automated clinical lab use)

To Really Solve Problems, You Have to Understand the Chemistry

- Stent content uniformity problem solved
- Nitrite titration variability eliminated
- Base-induced degradation of API salt form