

Core Competencies

- Process Chemist
- Fractional Distillation
- Man in Plant
- Contract Manufacturing
- CMO Selection
- Small and Large Molecule
- Combination Products
- Hazard Analyses
- Process Improvement

David B. Adams

Senior Drug Substance Consultant

Professional Summary

Mr. Adams is a perceptive chemist/engineer with over 30 years' experience problem-solving pharmaceutical manufacturing and process development challenges. He has practical experience with fractional distillation, hydrogenations, catalysis, Grignard reactions, extractions, filtrations, and hazardous reagents. He is also experienced with GMP's, lean sigma, statistical-process-control, hazard analyses, environmental controls & treatment, DEA, and OSHA & FDA regulations. His accomplishments include:

- Managing multiple production campaigns
- Improved operational controls and provided accountability for \$15-million process recovery stream
- Developed an improved crystallization for 6-ACP, reducing processing time by 50%.

Before joining DSI, Mr. Adams served as Production Team Leader for Lonza and Senior Process Engineer at Johnson Matthey.

Education

B.S. Biological Sciences
w/minor in Chemical Engineering Drexel University

Professional Experience

Design Space Inpharmatics, LLC **2019 - Present**

Senior Drug Substance Consultant

Leads API manufacturing and operations for Client's projects. Serves as man in plant to monitor products.

- Yield and efficiency improvement,
- Process development,
- Production campaign leadership.



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Johnson Matthey, Inc.

2010-2015

Senior Process Engineer

- Introduced 18 new processes into production including all documentation, staff training, records, engineering, hazard analyses, environmental and safety evaluations, mass balances, process set-up, simulation, DCS Programming, process improvement, team leadership, cleaning design/execution, campaign & validation reports,
- Provided on-going support for new process introductions and report generation.

Lonza, Inc.

2008-2010

Senior Process Chemist

- Managed approximately 6 production campaigns per year including all documentation, staff training, records, hazard analyses, DCS Programming, engineering, mass-balances, safety evaluation, process set-up, simulation, process improvement, cleaning design/execution, campaign & validation reports,
- Met yield and production targets on all process campaigns,
- Improved the TTL process to greater than 99.9% reliability,
- Improved operation and provided accountability for \$15-million process recovery streams.

Noramco, Inc.

2004-2008

Senior Chemist / Laboratory Supervisor

- Introduced three new processes into production,
- Improved efficiency and yield by 15% (each) of two under-performing processes,
- Trained 12 laboratory staff, supervised laboratory operation, maintenance and experimentation,
- Redesigned & renovated a laboratory facility (new furniture and functional layout).

Lonza, Inc.

1975-2004

Production Team Leader

- Leader of cross-departmental production team responsible for large scale product campaigns,
- Averaged 10% increase (3% - 250%) of throughput per year and major reductions in product cost through process improvements,

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- Introduced 6 new processes through piloting and into production,
- Developed an improved crystallization for 6-ACP – reducing processing time 50%,
- Discovered/revised three, flawed, manufacturing processes for older products,
- Managed a 6-month plant-wide stream analysis (~ 10,000 samples & testing, labor, analysis & reporting) with successful determination of two pollutant sources,
- Performed process monitoring & yield reporting, in-process testing, & process improvement,
- Aided plant start-ups in Puerto Rico and the US with design of 4 laboratories, process introductions, staffing and training,
- Provided 10% cost improvement to a \$1 billion product 6 months after start-up,
- Developed and piloted SmithKline Corporation's first billion-dollar product (Tagamet®),
- Discovered/revised two, flawed, manufacturing processes for older products,
- Improved a product distillation to eliminate 20% waste per distillation.