

PAT Upgrade Module

Client LC from
Another Supplier

PAT Upgrade Blending Module

Upgrade any Process LC System with Adaptive PAT™

- Full compliance with 21CFR Part 11
- Adaptive PAT™ buffer and mobile phase dilution and blending +/- 0.1% reproducible and accurate
- Elimination of process variability for improved yields, reduced cost
- Increased FDA cGMP compliance
- Permits the use of buffer concentrates to reduce floor space requirements

PAT Upgrade

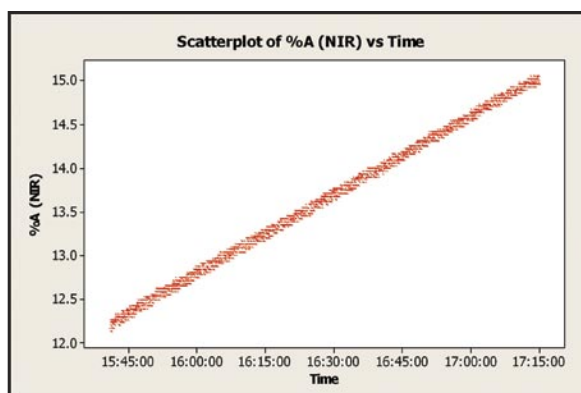
Save Space / Increase Capacity Using Buffer Concentrates

Upgrade your LC systems *from other suppliers (including equipment from fabrication shops)* and fulfill the FDA's PAT initiative using TechniKrom's Adaptive PAT™.

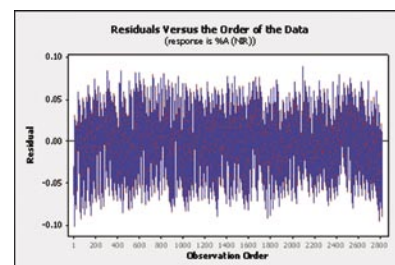
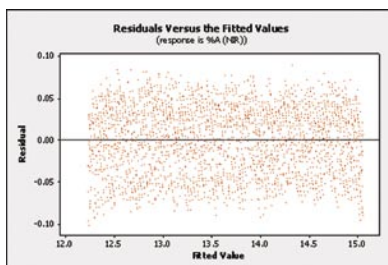
- Get latest updated compliance with 21CFR part 11 with our intuitive, reliable and validated software package
- Get Adaptive PAT™ control of your mobile phase delivery, dilution and blending
- Reduce process variability to get improved yields, reduced costs and increased compliance
- Available as a IQ/OQ validated stand alone unit or fully integrated module

Variability in large volumes of buffer or mobile phase is a problem in downstream recovery. Buffers typically vary as much as +/- 2 – 5% and solvent stocks by +/- 1 – 2%. Our Adaptive PAT™ system reduces variability by a factor of 20 – 50X over existing systems! It lets you monitor, correct, and create incoming isocratic mobile phases from **buffer concentrates** to within 0.1% reproducible accuracy. It also lets you make +/- 0.1% mobile phase blends (isocratic, step or linear gradients) with concentrates and inline dilution.

cGMP Case Study: Gradient LC



Regression Analysis of Linear Gradient Accuracy



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