

# Preparative HPLC Troubleshooting Guide

Your guide to solving common problems and staying productive

Agilent  
InfinityLab

## Places to start

### Errors

- Use direct ionization buffer in ion suppression
- Use low pH/low gradient systems

### Prevent and prevent re-occurrence

- Regular solvent buffer and filter changes
- Always use the best solvent available to optimize the pump
- Use the appropriate system conditioning method

### Early tests

- Replace reagents and replace mobile phase every second day
- Check and wash column
- Start the system with the composition of your application

### Early tests

- Change solvent solvent, solvent, solvent solvent flow
- Check system components and change them if necessary

### Early tests

- Pump at flow rate to remove any deposits and particles inside
- Start the system with appropriate solvent solvent and pump

### Early tests

- Remove high solvent pH system components from system
- Pump mobile phase through column with neutral solvent
- Clean system with 10% organic and 10% acid or solvent composition to wash trapping or buffer degradation of column



## Maintenance

Agilent Lab Manager software helps you manage and optimize all instruments to achieve high quality, chromatographic results. The more efficient you are using high volume performance, productivity, reliability, it is suitable for all change.

- Regular tests to ensure performance
- Clean maintenance of all types of modules
- Comparison of system performance and maintenance with system status

### Flow rate



### Flow rate



### Flow rate



### Flow rate



### Flow rate



Problem	Solution
Flow rate is too low	Check pump flow rate and solvent flow rate
Flow rate is too high	Check pump flow rate and solvent flow rate
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# Agilent B15programming Guide

**AW Rasmussen**



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