

# Preparative HPLC Troubleshooting Guide

Your guide to solving common problems and staying productive

Agilent  
InfinityLab

## Places to start

### Errors

- Use proven installation techniques and equipment
- Use only Agilent grade reagents

### Prevent and prevent its effects

- Regular solvent delivery and filter changes
- Always use the most robust method available for 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 system, column, and reagents every three days
- Check system components and change them if necessary

### Early detection

- Run at low flow rate to remove any deposits and particles that may be in the system
- Start the system with appropriate strong solvent and pump down the system

### Early detection

- Remove high viscosity pH system components from system
- Pump mobile phase through column with neutral reagents
- Clean system with 10% organic and 10% base or strong 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 in using high volume performance, productivity, reliability, it is a solution 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 instability



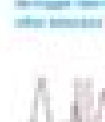
Problem	Root Cause
Flow rate is increasing	Flow rate is increasing
Flow rate is decreasing	Flow rate is decreasing

### Flow rate is too high



Problem	Root Cause
Flow rate is too high	Flow rate is too high
Flow rate is too low	Flow rate is too low

### Flow rate is too low



Problem	Root Cause
Flow rate is too low	Flow rate is too low
Flow rate is too high	Flow rate is too high

### Flow rate is too high



Problem	Root Cause
Flow rate is too high	Flow rate is too high
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### Flow rate is too low



Problem	Root Cause
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Flow rate is too high	Flow rate is too high

### Flow rate is too high



Problem	Root Cause
Flow rate is too high	Flow rate is too high
Flow rate is too low	Flow rate is too low



# Agilent B15programming Guide

**Jiyuan Zhang**



## **Agilent B15programming Guide:**

## Unveiling the Magic of Words: A Report on "**Agilent B15programming Guide**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Agilent B15programming Guide**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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