Correct Connection Method for LC Spectrum Splitter

Article Overview

To correctly connect an LC spectrum splitter, use appropriately cut PEEK tubing to achieve the desired split ratio, connect the shorter tubing to waste, the longer tubing to the detector or MS, and configure the software to manage flow.

Step-by-Step Connection

• Determine Split Ratio Decide the desired flow split between the detector and waste. For example, a 1:3 split means 25% of the flow goes to the detector and 75% to waste.

• Cut PEEK Tubing Measure and cut the PEEK tubing according to the split ratio. For a 60 cm total length, cut 20 cm for the detector side (1/3) and 40 cm for the waste side (2/3) to maintain the correct flow distribution .

• Connect to Diverter Valve
• Disconnect the tubing from port 3 of the fluidics diverter valve.

• Connect the shorter tubing to port 3 and place the outlet in a waste container.

• Connect the longer tubing from port 2 to the detector, such as an ESI probe or optical detector .

• Software Configuration Configure the acquisition software to recognize the split flow. Ensure that flow to waste and flow to the detector are properly managed, and that the disconnected channel is not used for calibration or post-column addition .

Article Content

Understanding Power Splitters

Understanding Power Splitters How they work, what parameters are critical, and how to select the best value for your application.

Best Practices Eficient Liquid Chromatography (LC) Operations

The LC Handbook: Guide LC Columns and Method Development is more readily available in laboratories, it is desirable to develop

Instruction

LC Multimode & Singlemode Connector Termination Instructions Note: To optimize optical performance of the connectors while

Spooktacular Solutions for LC Tubing and Connections

Learn about types of tubing and fittings and making the best connections. Make sense of how to select the correct

The LC Handbook

As part of our commitment to helping you get the best results from your liquid chromatography, we have compiled this handy guide to

LC connector Assembly Manual

When stripping the last increment, the end of the stripping collar should gently rest against the fiber guide inside of the clearance

Optimization of flow splitting and make-up flow conditions in liquid ...

Methods Different types of splitters were evaluated in combination with a make-up flow. A home-made 1/10 T-piece

Capillary Flow Technology: Splitters

The splitter system is therefore capable of providing up to four signals (two GC signals, SIM, and full-scan chromatograms) from a

Basics of LC/MS

Learn about the basics of liquid chromatography mass spectrometry. With a focus on the fundamentals of LC/MS, this primer

Checking your browser

Checking your browser before accessing pmc.ncbi m.nih.gov ...

How to Connect a Splitter to Another Splitter: A Complete ...

In this guide, we''ll explain how to safely connect a splitter to another splitter, covering both fiber optic and coaxial

Flow_Splitter-Manual dd

Multiport splitters are generally configured for custom appli-cations and may contain both high and low flow rate ports. The principals

How to Use a Cable Splitter

If you are willing to buy a cable splitter but don''t know much about it, then check this guide to know how to use a cable

The LC Handbook

The new Agilent 1290 Infinity II LC system embodies the future of UHPLC—with the exceptional reliability and

How to Connect LC Fiber Connectors in 5 Easy Steps

Done right, LC fiber optic connectors enable constructing high-density cabling plant that satisfies escalating

LC Connector Installation Guide | PDF | Optical Fiber

This document provides installation procedures for Pre-Radiused LC Fiber Optic Connectors using both Epoxy and EZ methods,

Fittings and Connections for Liquid Chromatography—So Many Choices!

In this month''s "LC Troubleshooting," I review the basic principles involved in making good connections, discuss what

PLC Splitter: The Ultimate Guide to Efficient Light Distribution

A PLC Splitter divides one optical signal into multiple outputs, ensuring reliable, efficient fiber optic network

The Complete and Easy Guide to Configuring your Thermo Scientific ...

Tighten the nut fingertight. Push the capillary (column) all the way into the sleeve (port) to minimize dead volume. Finally tighten the

Installation Guide for LC, SC, FC, and ST Compatible ...

Please become familiar with the entire manual before beginning installation of these anaerobic connectors. Visit

Fittings and Connections for Liquid Chromatography—So Many Choices!

In my work mentoring people less experienced with liquid chromatography (LC), both in industry and academia, I find

How a Spectrum Splitter Works: Diagram and Applications

At the receiving end, a spectrum splitter, known as a demultiplexer, separates these wavelengths, directing each data stream to the

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Agilent Splitter Kits

Thus, for different flow rate ranges and systems, different splitter kits are required. The following figure gives an overview of the

Making your LC Method Compatible with Mass Spectrometry

During the analysis of accelerated stability samples, new unknown peaks were observed. An HPLC-UV-MS compatible method with

Liquid Chromatography Mass Spectrometry (LC-MS)

Our liquid chromatography mass spectrometry (LC-MS) overview explains how this technology is used to

Splitter Configurations. Agilent Technologies G3180B

The important parameters when setting up a splitter are the lengths and diameters of the restrictor tubes that go to the two detectors.

Contact Us

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