

Lc-ms Interface Technology



Overview

- Definition: Interface is the connecting unit between LC and MS that converts analytes from liquid effluent into gas-phase ions for MS detection. Liquid chromatography-mass spectrometry (LC-MS) is an analytical chemistry technique that combines the physical separation capabilities of liquid chromatography (or HPLC) with the mass analysis capabilities of mass spectrometry (MS). oxidation of tungsten filament at high temperature). As a result, the use of EI in LCMS is not suitable due to the. The analysis of biomolecules by mass spectrometry (MS) put rather severe constraints on the ionization method, as far as its ability to produce intact biomolecular ions (without uncontrollable fragmentation) is concerned.



Article Content

Fundamental LCMS Principle Guide

Therefore, it is crucial to have an interface to connect the LC outlet to the MS inlet that can efficiently transfer the LC mobile phase to

Comprehensive Overview of LC-MS Interface Techniques and

Detailed exploration of LC-MS interface technologies including ESI, APCI, and APPI, their principles, processes, features, and

Electron ionization in LC-MS: Recent developments and

Because of the low operative flow rates, this interface relies on a nano-LC technology that helps in reducing the impact

The history of electron ionization in LC-MS, from the early days to ...

At the time of the first efforts to couple LC to MS, 70 eV EI was the most common ionization technique, typically used in

Integrating LC and MS

Integrating LC and MS Chapter 2 introduces the detailed configuration of the LCMS instrumentation. It generally consists of a LC

Fundamental LCMS Principle Guide

We are very happy to deliver you our first LCMS Primer which has very well compiled the basic principles and theory of mass

Interfaces for LC-MS

The moving-belt interface separates the condensed liquid-phase side of the LC from the high vacuum of the MS and uses a belt to

LC-MS Interfaces

Concomitantly, the quest for the best LC-MS interface started early in the 1970's. A simple and versatile sheathless low-flow ESI

LC/MS ion source, Ion Source Technology | Agilent

Agilent offers ion source technologies for high performance, robust, and flexible LC/MS applications. The portfolio of LC/MS ion

Liquid chromatography-mass spectrometry

The key to the success and widespread adoption of LC-MS as a routine analytical tool lies in the interface and ion source between

Interfaces for LC-MS

Therefore, it is crucial to have an interface to connect the LC outlet to the MS inlet that can efficiently transfer the LC mobile phase to

Fundamental LC-MS Introduction

In its simplest form the process of mass analysis in LC/MS involves the separation or filtration of analyte ions or fragments of analyte

Chapter 2 Integrating LC and MS

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A Comprehensive Review on Liquid Chromatography

Significant technological advancements in interface design and ionisation processes marked the beginning of the evolution of LC-MS

Introduction to Mass Spectrometry

HPLC MS Interface (Key to Success!) API-MS is a detection method for samples in the liquid phase (HPLC, FIA, Infusion). The

LC-MS | PPTX

This document discusses various interfaces used in liquid chromatography-mass spectrometry (LC-MS). It describes 8 types of

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For more information, pricing, or custom solutions, please contact us:

Website: <https://www.yachtchartercapetown.co.za>

Email: info@yachtchartercapetown.co.za

Phone: +27 21 863 4927

Address: 1st Floor, The Towers, 1 St George's Mall, Cape Town, 8001, South Africa

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