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## **Theory, Technology, and Practice | Wiley**

General description.  
High performance liquid chromatography (HPLC) is the most common analytical method for separating substances into their individual components. As the separations occur in a column, this part of the HPLC apparatus is crucial to achieving the best results. This state-of-the-art overview of

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(1998). HPLC Columns,  
Theory, Technology, and Practice.

Instrumentation

Science & Technology:

Vol. 26, No. 4, pp.

439-440.

## **HPLC Columns, Theory, Technology, and Practice: U. D. Neue ...**

(1998). A Review of:  
HPLC Columns, Theory,  
Technology, and  
Practice. Journal of  
Liquid Chromatography

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Technologies: Vol. 21,  
No. 6, pp. 910-912.

## **A Review of: HPLC Columns, Theory, Technology, and ...**

Shodex carries about 1000 different LC columns. In other words, we need to choose a best fit column among these 1000 LC columns. 2. HPLC Separation Ideally, obtained LC separation result

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should provide a symmetrical peak shape (Figure 2a). When there is a problem, the peak will not be a symmetrical one and may show leading (Figure 2b) or ...

## **Lesson 2: Theory and Types of HPLC Column | Shodex/ HPLC ...**

4 1 Basic HPLC Theory and Definitions:

Retention,  
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Thermodynamics,  
Selectivity, Zone  
Spreading, Kinetics.

The pharmaceutical industry prefers to use the term tailing factor ( $T. f \times \%$ ), which is defined in Figure 1.5, whereas in the academic community, the asymmetry factor,  $A. s f \times \%(b/a)$  is commonly used.

## **1 Basic HPLC Theory and Definitions: Retention ...**

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Neue, HPLC Columns:  
Theory, Technology  
and Practice (Wiley-  
Interscience, New York,  
1997). NEUE, PhD, is a  
chemist in the  
Chemical Products  
Group at Waters  
Corporation, Milford,  
Massachusetts. With  
Chromolith® columns,  
flow rates can easily be  
varied from 1 mL up to  
9 Ref.1: U.D.  
Chromolith® HPLC  
columns are made with  
monolithic silica

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technology.

## Technology And

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High-performance liquid chromatography (HPLC), formerly referred to as high-pressure liquid chromatography, is a technique in analytical chemistry used to separate, identify, and quantify each component in a mixture. It relies on



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pumps to pass a pressurized liquid solvent containing the sample mixture through a column filled with a solid adsorbent material.

## **High-performance liquid chromatography - Wikipedia**

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Theory, Technology,  
and Practice by Uwe D.  
Neue. Wiley & Sons,  
Incorporated, John,

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## **Theory, Technology, and ...**

High performance liquid chromatography or commonly known as HPLC is an analytical technique used to separate, identify or quantify each component in a mixture. The mixture is separated using the basic principle of column chromatography and then identified and quantified by

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spectroscopy. A computer analyzes the data show the output in display.

## **High Performance Liquid Chromatography: HPLC Basics ...**

High performance  
Liquid

Chromatography. High performance liquid chromatography (HPLC) is basically a highly improved form of column liquid

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chromatography.

Instead of a solvent being allowed to drip through a column under gravity, it is forced through under high pressures of up to 400 atmospheres. That makes it much faster.

## **High Performance Liquid**

## **Chromatography (HPLC) : Principle ...**

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compiled this handy  
guide to choosing LC  
columns, with plenty of  
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your job easier and  
more productive. ... we  
will briefly review the  
equations and theory  
behind many of the  
concepts that drive  
chromatography.

## **The LC Handbook - Agilent**

Although the column is  
the heart of the HPLC

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instrument and  
essential to its success,  
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## **HPLC | HPLC Technologies | High performance liquid**

...

High performance liquid chromatography is defined as a separation of mixtures of compounds due to differences in their distribution equilibrium between two phases, the stationary phase

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delivered through the  
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