

HPLC Uses and Importance in the Pharmaceutical Analysis and Industrial Field

Bassam Abdul Rasool Hassan*

Clinical Pharmacy Discipline, School of Pharmaceutical Sciences, University of Sains Malaysia, 11800, Minden, Penang, Malaysia

Definition

High-performance liquid chromatography (HPLC) is a chromatographic technique used to split a mixture of compounds in the fields of analytical chemistry, biochemistry and industrial. The main purposes for using HPLC are for identifying, quantifying and purifying the individual components of the mixture.

Its General Use in Pharmaceutical Industrial and Analytical Field

HPLC play an important and critical role in the field of pharmaceutical industries and analysis, since it is used to test the products and to detect the raw ingredient used to make them i.e., qualitative and quantitative analysis. Moreover, the importance of HPLC uses in these fields falls under the stringent regulations established by the U.S. Food and Drug Administration (FDA). This

obligate all pharmaceutical companies to detect the quality of their products by using the HPLC before allowing them to sell it in the global market.

Specific Benefits Gain from Using HPLC

The most important benefits gain from the uses of HPLC technique in the industrial and analytical field that it is help in structure elucidation and quantitative determination of impurities and degradation products in bulk drug materials and pharmaceutical formulations. These benefits which gain from the using of HPLC not only limited for the synthetic drugs and formulas but also include herbal medicine too.

Role of Open Access Journal in this Point

Therefore it is a very important point for the open access journals to encourage researchers to work hard in order to clarify the importance of HPLC use in the industrial or analytical field.

***Corresponding author:** Bassam Abdul Rasool Hassan, Clinical Pharmacy Discipline, School of Pharmaceutical Sciences, University of Sains, Malaysia, 11800, Minden, Penang, Malaysia, Tel: (+6)016-423-0950; E-mail: bassamsunny@yahoo.com

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