

high performance liquid chromatography (HPLC)

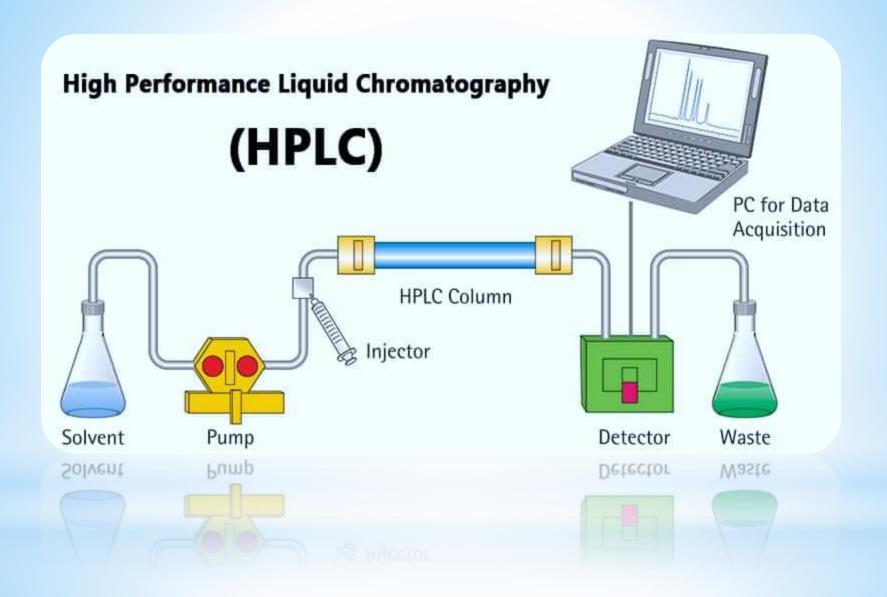
A very sensitive and accurate analytical technique for analyzing mixtures, usually preferred methodsHPLC over other high-performance liquid chromatography methodsQuantitative analysis so that we obtain an accurate qualitative separation of the components of the desired mixtureIdentify it This technique is often used in biochemistry and chemistryAnalytical to separate, identify, and quantify compounds in a single mixture.

نية تحليلية حساسة جدا ودقيقة لتحليل المخاليط، وعادة تفضل طرق على الطرق المتبعة HPLCكروماتوغرافيا السائل ذات األداء العالي األخرى في التحليل الكمي بحيث نحصل على فصل نوعي دقيق لمكونات المزيج المراد التعرف عليه وغالبا ما تستخدم هذه التقنية في كيمياء الحيوية والكيمياء التحليلية لفصل وتحديد، وقياس المركبات في مخلوط واحد.

List of plants used in medicinal herbs

- Medicago sativa البرسيم
- Momordica charantia القرع المر
- Apium graveolens الكرفس
- Apium graveolens البابونج
- > Larrea tridentata البلوط
- Capsicum frutescens الفلفل الحار
- Syzygium aromaticum القرنفل
- > foenum-graecum
- > Rosmarinus officinalis
- 🍃 Allium sativum ثوم





COMPOSITION OF A LIQUID CHROMATOGRAPH SYSTEM

- 1.Solvent
- 2. Solvent Delivery System (Pump)
- 3.Injector
- 4.Sample
- 5.Column
- 6. Detectors (Diode Array)
- 7. Waste Collector
- 8. Recorder (Data)

How does HPLC work?

This method is considered one of the most important methods of liquids, in which the static medium is chromatographic separation of liquids, in which the static medium is in the form of minute-sized particles and the moving medium (liquid) is pushed through the column filled with the static medium using a pump at specific pressures. To a few micrometers only.

It has already been possible to obtain different velocities of flow using columns filled with particles with a radius of up to 5 micrometers. In this way, it is possible to separate compounds that are difficult to volatilize or those that are affected by temperature. It is possible in this method by using fine particles of a solid substance that have the property of adsorption as a static medium. The materials have the property of ion exchange, as well as gels with specified distances. It is also possible to use a liquid loaded on fine particles of a solid substance.

Exmple

