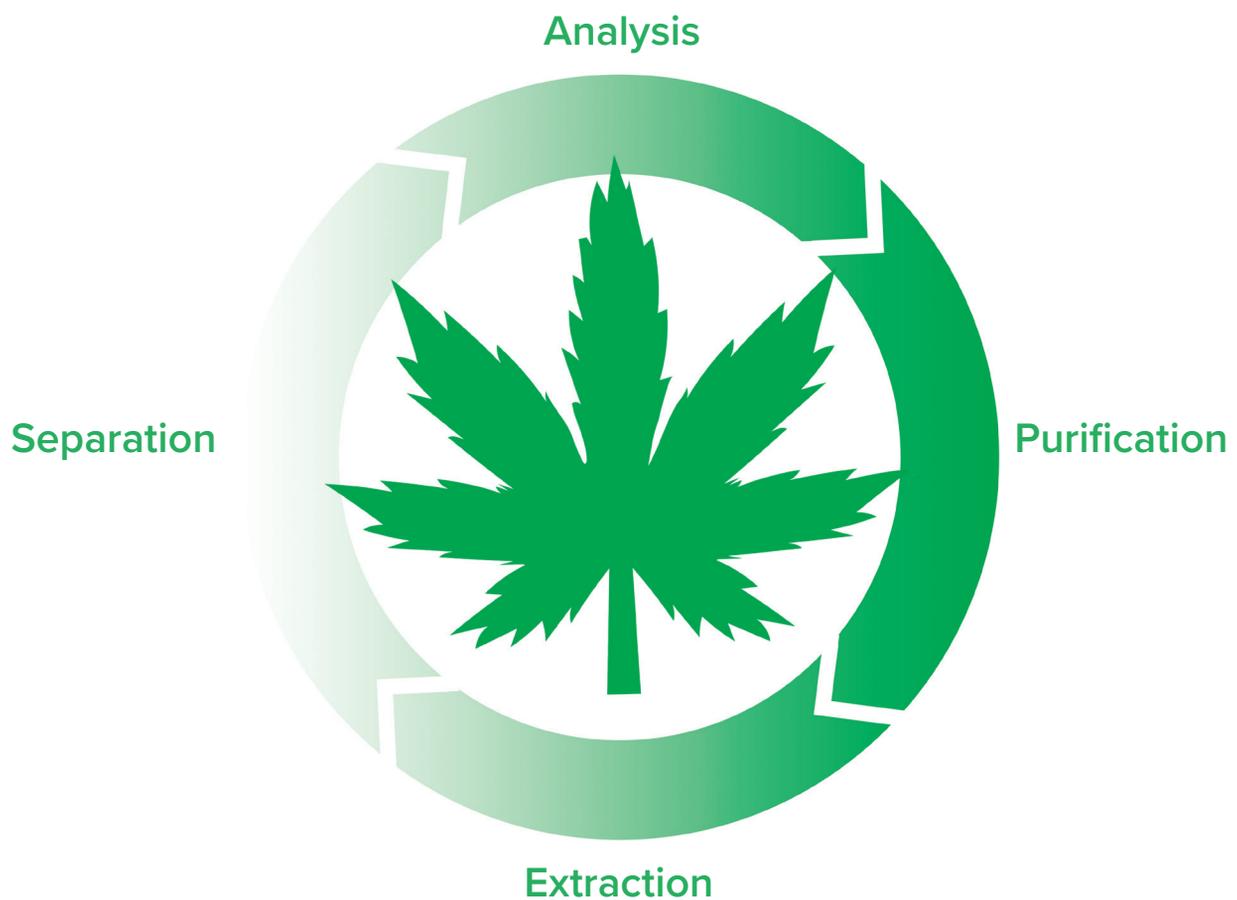


Cannabis Chromatography

Potency and Purification Solutions



JASCO





The JASCO Wolf solution.

Combining more than forty years history in the development of chromatography instrumentation from JASCO Corporation, together with Wolf Sciences cannabis laboratory expertise has resulted in a range of turnkey systems to meet testing and production needs.

These systems offer validated methods for rapid cannabis potency testing using analytical HPLC, through to highly productive preparative SFC methods for fast separation and purification of a complete profile of active ingredients. Each system is supplied complete with methods, standards and columns for immediate results.

As your requirements change and evolve, our chromatography and cannabis experts are ready to assist in meeting those demands. The application support team can help you develop robust methods and operations to maximize your lab productivity.

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HPLC

Potency Analysis

This system is simple to setup, and the user only needs to add solvents. Pre-developed HPLC methods provide automated separation, compound identification and potency determination in under 5 minutes.

User-operation is completely turnkey, with the entire process from injection to potency determination being made automatically, with the result printed or saved as a PDF.

The complete system (without PC) is extremely compact and requires less than 12 inches of bench space. An autosampler for unattended operation can be added as the number of samples increase.

- **Sub 5-minute analysis**
- **Turnkey solution**
- **Compact**



Isolation and Purification

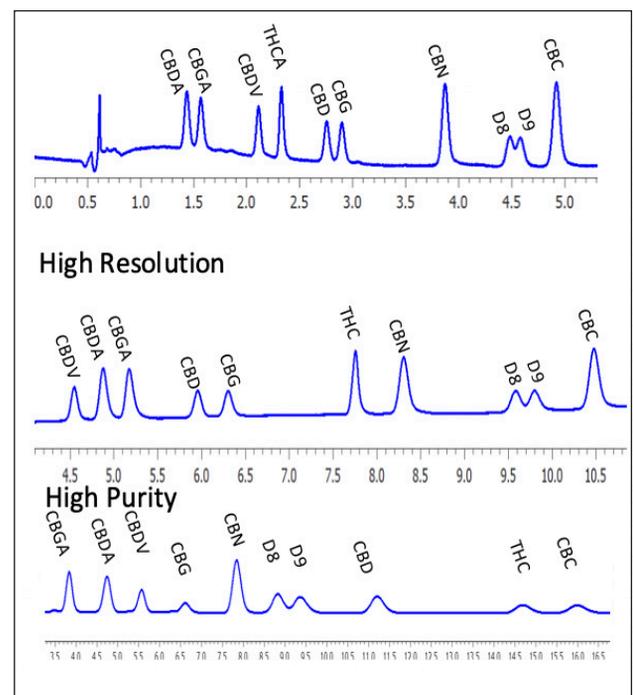
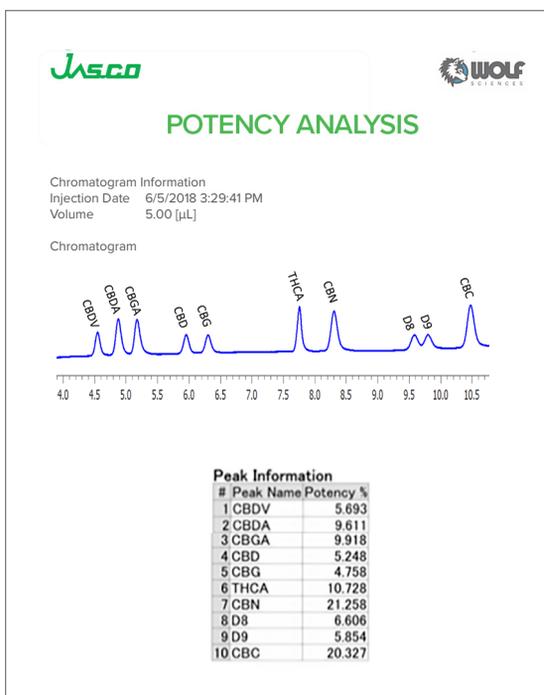
The high-purity separation method takes a little longer, but the components are more separated so that high purity fractions can be collected without cross-contamination. This allows for the creation of standards or the isolation of pure cannabinoids.

Customizable Reports

Pre-built reports for potency results, that can be easily customized and formatted to include your corporate information.

High Throughput, Sensitivity and Resolution

Our unique pre-developed method provides high throughput and high sensitivity in less than 5 minutes. If greater resolution is required for a more complex mixture, a 2nd pre-developed method can be used on the same column.



SFC

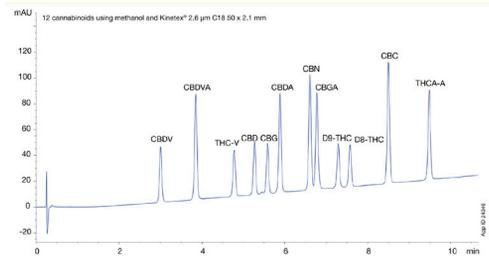
Advantage of SFC

SFC is a type of chromatography quite similar to HPLC in that it uses a stationary phase and a mobile phase, but the major difference is that CO₂ is often used as the mobile phase. Cannabinoids readily dissolve in supercritical CO₂, this takes advantage of the reduced viscosity (much lower than liquid solvents), so separations can be made more quickly. A second benefit is that CO₂ does not leave a residue unlike organic solvents, and samples can be dried more quickly.

- Potency analysis
- Cannabinoid purification
- Standards production

SFC can be used not only to quickly determine cannabinoid potency, but the same system can be used to scale-up for isolation and purification of individual cannabinoids. Component purification allows you direct control over formulation with the selection and blending of exact amount of each cannabinoid.

In addition, SFC can be used for the production of standards or to isolate individual cannabinoids in greater quantities.



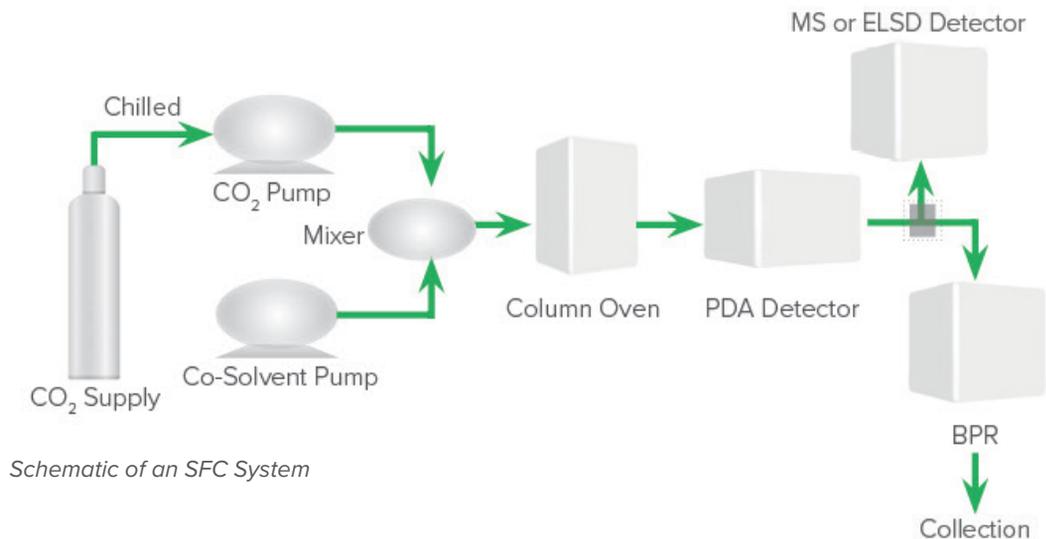
Analytical SFC
Potency Analysis
Small Scale Purification



Hybrid SFC
Potency Analysis
Medium Scale Purification



Prep SFC
Large Scale Purification
Standards Production





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