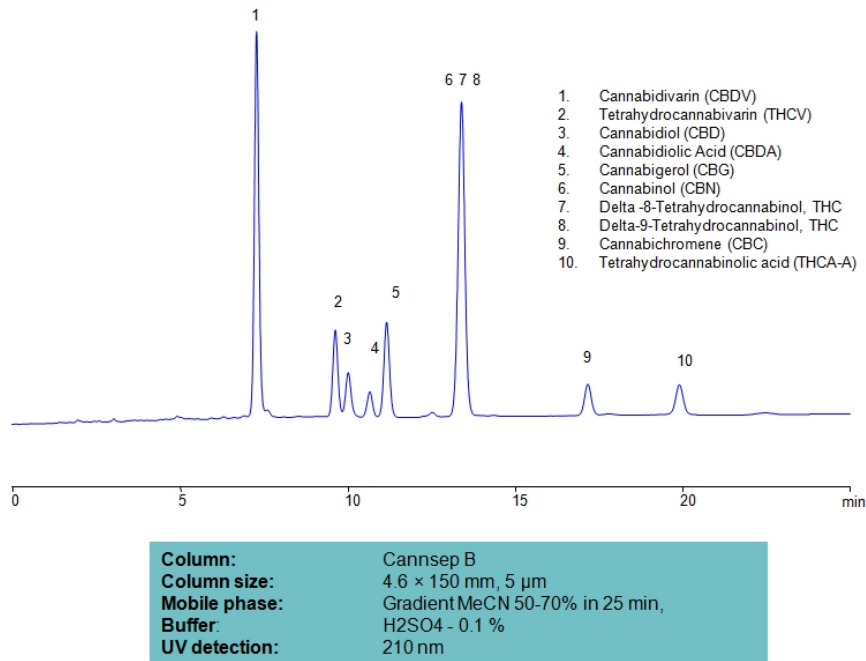


HPLC Separation of Ten Cannabinoids on Cannsep B Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Cannabidiol (CBD), Cannabidiol (CBD), Cannabidiol (CBD), Cannabidiol (CBD), Cannabidiol (CBD), Cannabidiol (CBD), Cannabidiol (CBD), Cannabidiol (CBD), Cannabidiol (CBD), Cannabidiol (CBD).

Cannabidiol (CBD) is a non-intoxicating psychoactive cannabinoid with the chemical formula C₂₁H₃₀O₂. Due to its demonstrating anticonvulsive properties, it is actively in Phase-2 trials for adult epilepsy, childhood epilepsy, and for Prader-Willi Syndrome.

Tetrahydrocannabinol (THC) is a cannabinoid receptor type 1 antagonist with the chemical formula C₂₁H₃₀O₂. It is prevalent in certain strains of Cannabis in central Asia and southern Africa. It is currently being researched as a potential treatment for obesity-associated glucose intolerances. It is also said to reduce appetite and have energizing effects.

Cannabidiol (CBD) is a phytocannabinoid with the chemical formula C₂₁H₃₀O₂. It is used in a variety of ways. Its only confirmed medical use is as epilepsy medication. It may help with pain, sleep, and addiction as an alternative to opioids, but due to limited clinical evidence, its regulations are dependent on the state. It is advised against using it during pregnancy due to unknown effects on fetal and infant development.

Cannabidiol (CBD) is a precursor to Cannabidiol with the chemical formula C₂₂H₃₀O₄. Research suggests that it might have anti-inflammatory, anti-emetic, anti-convulsant, and anti-carcinogenic properties, but not enough research has been done into it for it to be used as widely as other cannabinoids and the like.

Cannabigerol (CBG) is a non-psychoactive cannabinoid with the chemical formula $C_{21}H_{32}O_2$. It is a minor constituent of cannabis. CBG that is derived from marijuana is illegal, while CBG derived from hemp is legal as long as the THC content of hemp is less than 0.3% of dry weight. It was sold illegally by certain companies under unproven claims of being treatment against the COVID-19 virus and inflammation.

Cannabinol (CBN) is a mildly psychoactive phytocannabinoid with the chemical formula $C_{21}H_{26}O_2$. It was the first cannabinoid to be isolated from cannabis in the late 1800s. It is legal in the United States as long as the THC concentration is 0.3% or less.

Delta-8-Tetrahydrocannabinol , also known as delta-8-THC and Δ^8 -THC, is a sychoactive cannabinoid with the chemical formula $C_{21}H_{30}O_2$. It is less potent than delta-9-THC, it works in a similar way by binding to cannabinoid receptors in the brain. It's legality is dependent on the state.

Delta-9-Tetrahydrocannabinol , also known as delta-9-THC and Δ^9 -THC, or simply THC , is the principal psychoactive constituent of Cannabis with the chemical formula $C_{21}H_{30}O_2$. In pharmaceutical contexts, it is referred to as dronabinol and is used un nabiximols, which helps alleviate neuropathic pain, spasticity, overactive bladder, and more. Medical use of THC is allowed in the majority of the states in the United States of America, with less than half having it be legal for recreational use.

Cannabichromene (CBC), also known as cannabichrome, cannabichromene, pentylcannabichromene and cannabinochromene is a phytocannabinoid with the chemical formula $C_{21}H_{30}O_2$. Research suggests that it might have anti-inflammatory, anti-emetic, anti-convulsant, and anti-carcinogenic properties, but not enough research has been done into it for it to be used as widely as other cannabinoids and the like.

Tetrahydrocannabinolic acid (THCA), also known as conjugate base tetrahydrocannabinolate, is a precursor of Tetrahydrocannabinol with the chemical formula $C_{22}H_{30}O_4$. Findings in regards to it being anything besides the THC precursor are limited, nor is it scheduled at the federal level in the United States, but it may be considered an analog of THC, leading to a risk if possessing or selling it.

Cannabidiolic acid (CBDA) , Cannabidiol (CBD) , Cannabidivarin (CBDV) , Cannabinol (CBN) , Cannabichromene (CBC) , Cannabigerol (CBG) , Tetrahydrocannabinol (THC) , Delta-9-Tetrahydrocannabinol (THC) , Tetrahydrocannabinolic acid (THCA-A) , Tetrahydrocannabivarin (THCV) can be retained and analyzed using the Cannsep B stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a sulfuric acid buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	Gradient MeCN50-70% , 25 min
Buffer	H ₂ SO ₄ – 0.1%
Flow Rate	1.0 mL/min
Detection	UV, 210 nm

Quelle: <https://sielc.com/hplc-separation-of-ten-cannabinoids-on-cannsep-b-column>