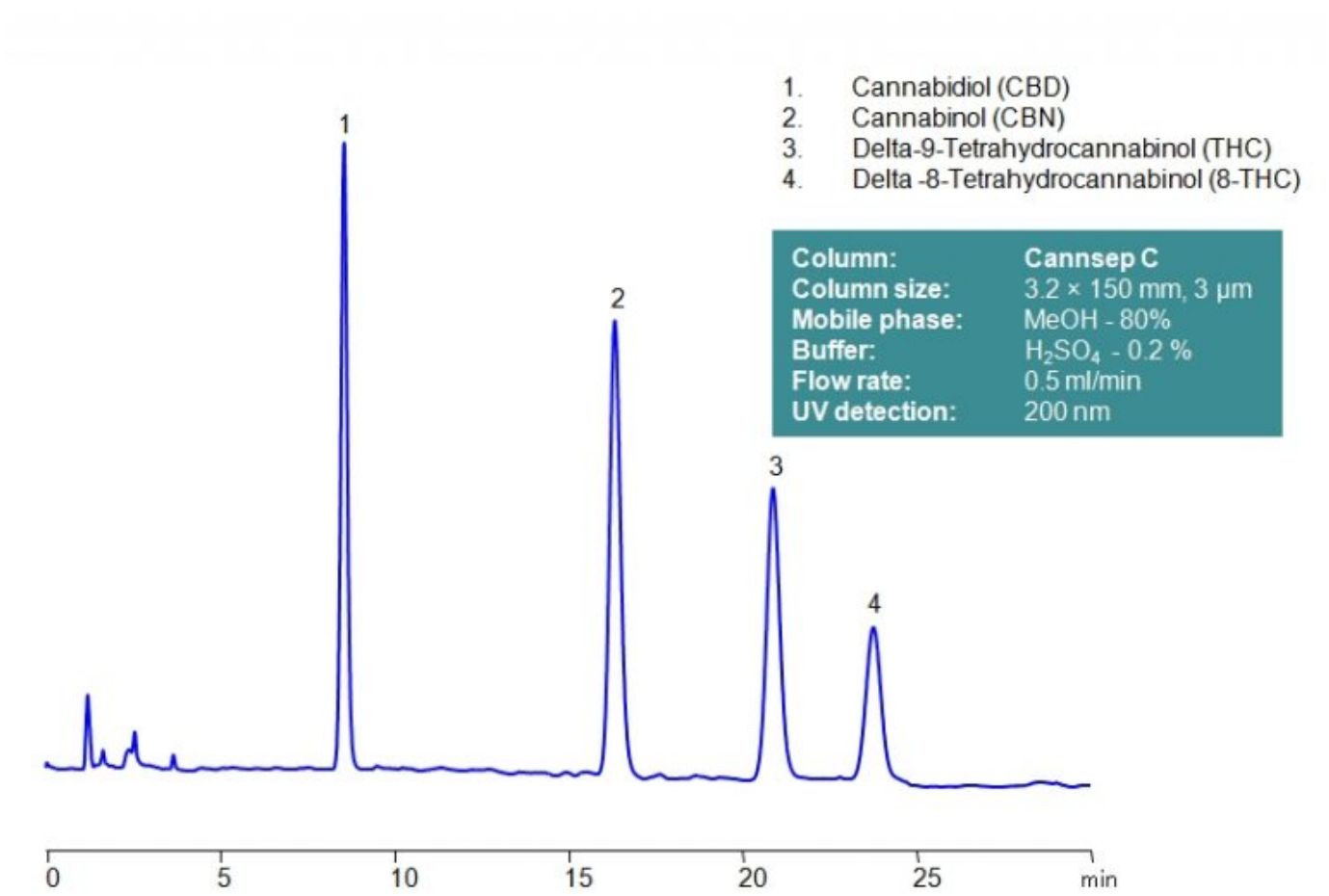
HPLC Determination of CBD, CBN, ∆9-THC, ∆8-THC on Cannsep C Column

https://sielc.com/hplc-determination-of-cbd-cbn-%25ce%25b49-thc-%25ce%25b48-thc

Chromatogram



Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Cannabidiol (CBD) , Cannabinol (CBN) , Delta-8-Tetrahydrocannabinol (8-THC) , Delta-9-Tetrahydrocannabinol (THC) .

∆8-THC , ∆9-THC , CBD and CBN are cannabinoids found in Cannabis plants. They have some medical uses among which is the prevention of nausea and vomiting caused by some cancer medications. THC has psychoactive effects, while CBD does not.

They can be separated using HPLC on a reverse-phase Cannsep C column using a mobile phase consisting of methanol (MeOH) and water with sulfuric acid (H2SO4) as buffer and UV detected at 200nm.

Method Parameters

Mobile Phase	MeOH -80%,
Buffer	H2SO4 – 0.2%
Flow Rate	0.5 ml/min
Detection	UV, 200 nm

Class of Compounds	Drug, Hydrophilic, Ionizable, Supplements
Analyzing Compounds	Cannabidiol (CBD),Cannabinol (CBN),Delta-8-Tetrahydrocannabinol (8-THC),Delta-9-Tetrahydrocannabinol (THC)

HPLC Column Used

Cannsep C, 3.2 x 150 mm, 3 µm, 100 A, dual ended

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