Supelco®
Analytical Products

MERCK

PROMOTION
CANNABIS TESTING EP.1

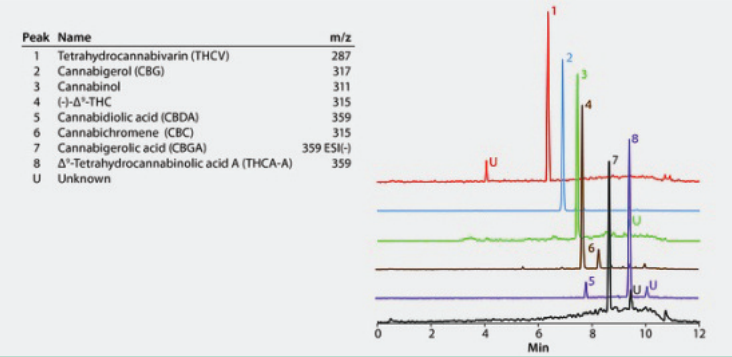
Discount up to 40% for reagent
Use Promo Code : MERCKCANNABIS
Valid until: 31st October 2021

Merck Ltd. Thailand
19th Floor, Emporium Tower,
622 Sukhumvit Road, Klongton,
Klongtoey, Bangkok 10110
Tel. : +66 (0) 2667 8000
Fax : +66 (0) 2667 8338
Customer Care Center : +66 (0) 2667 8333
www.mercklifescienceth.com
Facebook : Merck Thailand : Life Science
Line official : Merck Thailand

A4. การตรวจ CBD, CBN, และ THC โดย LC-MS

Set A4	Cat No.
ASCENTIS EXPRESS RP-AMIDE	53913-U
Ascentis® Express RP-Amide Guard Cartridge	53514-U
Ascentis® Express Guard Cartridge Holder	53500-U
Cannabidiol in methanol (FREE)	C-045-1ML

ตัวอย่าง Chromatogram และ condition LCMS



Peak	Name	m/z
1	Tetrahydrocannabivarin (THCV)	287
2	Cannabigerol (CBG)	317
3	Cannabinol	311
4	(-)-Δ⁹-THC	315
5	Cannabidiolic acid (CBDA)	359
6	Cannabichromene (CBC)	315
7	Cannabigerolic acid (CBGA)	359 ESI(-)
8	Δ⁹-Tetrahydrocannabinolic acid A (THCA-A)	359
U	Unknown	

Sample preparation
A 100 mg sample of dried cannabis sativa leaves was extracted with 50 mL of ethanol:water (50:50, v/v) for 15 mins in an ultrasonic bath. (The sample was then filtered through a 0.45 µm Millex LH filter prior to LC/MS analysis.)

Column
Ascentis Express RP-Amide, 10 cm x 2.1 mm I.D., 2.0 µm particles (53913-U)

Column temp. 35 °C

Mobile phase
[A] 0.1% formic acid; [B] 0.1% formic acid in acetonitrile

Gradient 60% B to 100% B in 10 min

Flow rate 0.4 mL/min

Pressure 7600 psi (524 bar)

Injection 1 µL

Detector MS, ESI(+), ESI(-), MRM

Reagents

Acetonitrile Solution (0.1% formic acid)	159002.1
Water Solution (0.1% formic acid)	159013.3
ETHANOL GRADIENT GRADE FO R LIQUID CHROMATOGRAPHY L	111727.3

contact us for pricing

LCMS FOR CANNABINOID TEST