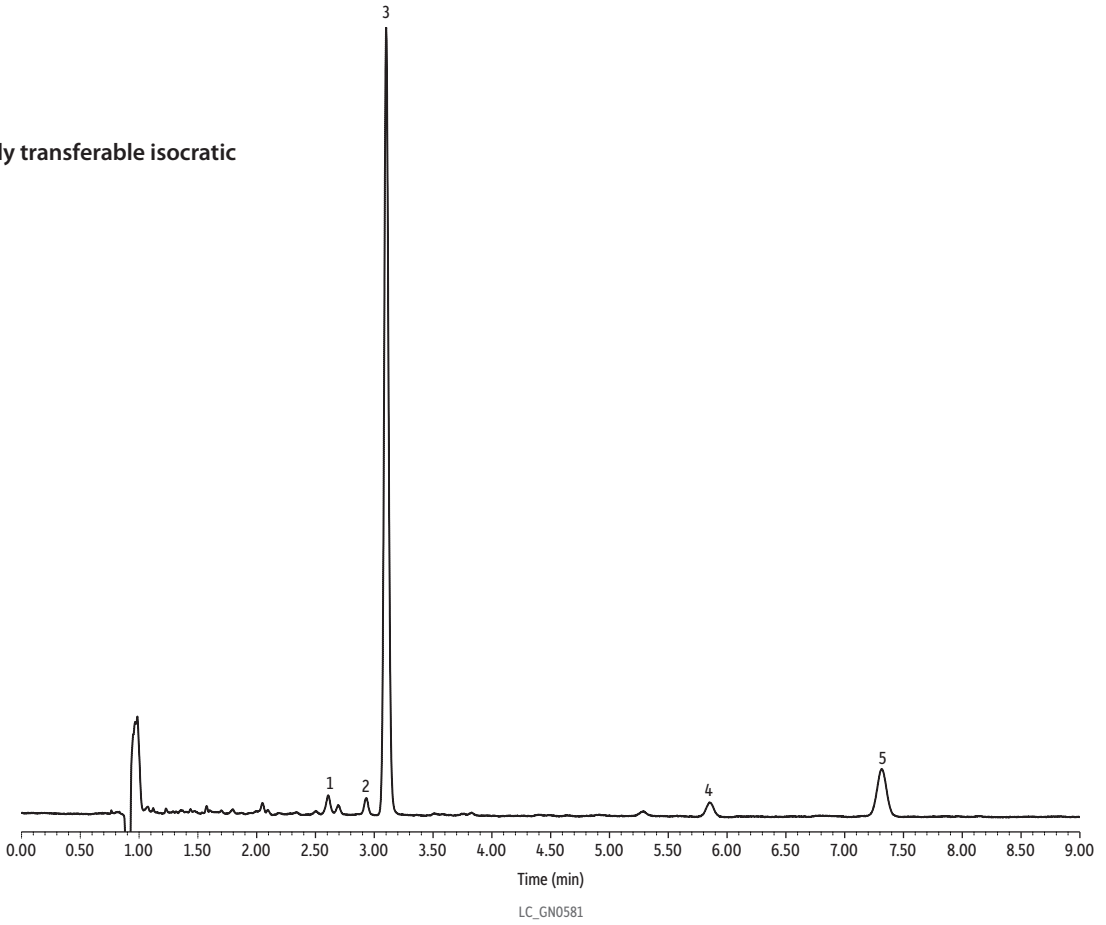
Potency Analysis of a Commercially Available CBD Product on Raptor ARC-18 2.7 µm by LC-UV

- **Simple, easily transferable isocratic method.**



Peaks	t_R (min)
1. Cannabidiolic acid (CBDA)	2.608
2. Cannabigerol (CBG)	2.934
3. Cannabidiol (CBD)	3.101
4. Δ9-Tetrahydrocannabinol (Δ9-THC)	5.851
5. Cannabichromene (CBC)	7.315

Column Raptor ARC-18 (cat.# 9314A65)
Dimensions: 150 mm x 4.6 mm ID
Particle Size: 2.7 µm
Pore Size: 90 Å
Guard Column: Raptor ARC-18 EXP guard column cartridge 2.7 µm (cat.# 9314A0250)
Temp.: 30 °C

Standard/Sample
Diluent: 25:75 Water:methanol
Conc.: 6.24 mg/mL (CBD)
Inj. Vol.: 5 µL

Mobile Phase
A: Water, 5 mM ammonium formate, 0.1% formic acid
B: Acetonitrile, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	1.5	25	75
9.00	1.5	25	75

Detector UV/Vis @ 228 nm
Instrument HPLC
Sample Preparation 50 µL of a commerically available CBD product was diluted in 950 µL of 25:75 water:methanol. The sample was vortexed for 30 seconds at 3000 rpm. 400 µL of the sample was then filtered using a Thomson SINGLE StEP standard filter vial (PVDF, 0.2 µm, Restek cat.# 25895) prior to analysis.
Notes CBDA, CBG, CBD, Δ9-THC, and CBC were detected, but only CBD was quantified.