



CTInstruments` Hemp & Cannabis HPLC Analyzer Technical Datasheet

Accurate, reliable, professional high-performance liquid chromatography instrument designed for determination of cannabinoids in hemp and cannabis biomass and products. Manufactured by an award-winning provider of cannabinoids testing solutions.

HPLC Features

• Reciprocating Pump • UV/VIS Detector

Rheodyne 7725i Injector
 Temperature-controlled
 Column Compartment

• CTI HPLC Software • Cannabinoids Test Methods

HPLC Specifications

Flow Rate 0.001 - 5mL/min

Max Pressure6,300 psiFlow Accuracy≤±1%

Flow Precision RSD < 0.1%

Qualitative Repeatability RSD ≤0.2% (Naphthalene/

Methanol standards)

Quantitative Repeatability RSD ≤0.5% (Naphthalene/

Methanol standards)

Wavelength Range 180 - 680nm

Spectrum Bandwidth 8nm
Wavelength Accuracy ±1nm

Wavelength Precision Below 0.1nm

Noise ≤0.25X10⁻⁵AU

HPLC Column Specifications

Column TypeC18, SS bodyDimensions150x4.6mmPacking5μm particles

Guard Column C18



2020 COMMERCIAL CANNABIS AWARDS WINNER



Best Cannabinoids
Potency Testing
Solutions Manufacturer North America

cannabishplcanalyzer.com



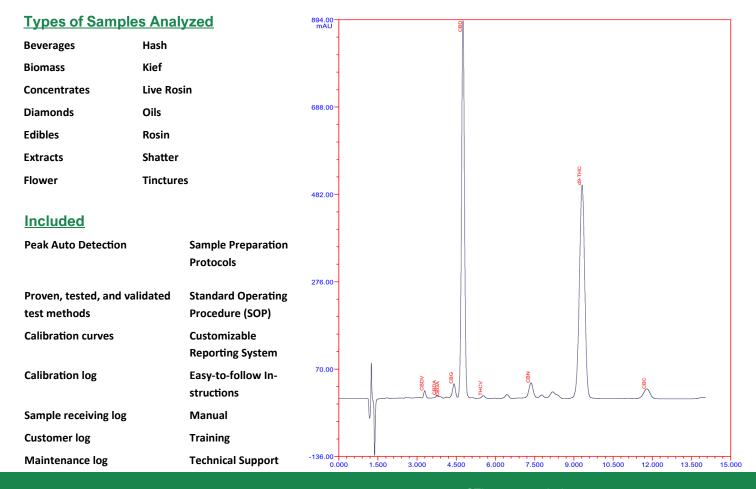


FEATURES

11 Cannabinoids Measured with Low Limit of Quantification

		Biomass	High % Concentrate	Edibles
THCV	Tetrahydrocannabivarin	0.03%	0.04%	0.01%
Δ8-ΤΗС	(-)-∆8-THC	0.03%	0.06%	0.01%
Δ9-ΤΗС	(-)-Δ9-THC	0.03%	0.06%	0.01%
Δ9-ΤΗСΑ-Α	(-)-trans- Δ 9-THC acid A	0.03%	0.04%	0.01%
CBD	Cannabidiol	0.03%	0.03%	0.01%
CBDA	Cannabidiolic acid	0.03%	0.03%	0.01%
CBDV	Cannabidivarin	0.03%	0.03%	0.01%
CBG	Cannabigerol	0.03%	0.03%	0.01%
CBGA	Cannabigerolic acid	0.03%	0.03%	0.01%
CBN	Cannabinol	0.03%	0.03%	0.01%
СВС	(+/-) Cannabichromene	0.03%	0.05%	0.01%

Sample Preparation Protocols and Test Methods Optimized for All Types of Samples



Web: cannabishplcanalyzer.com

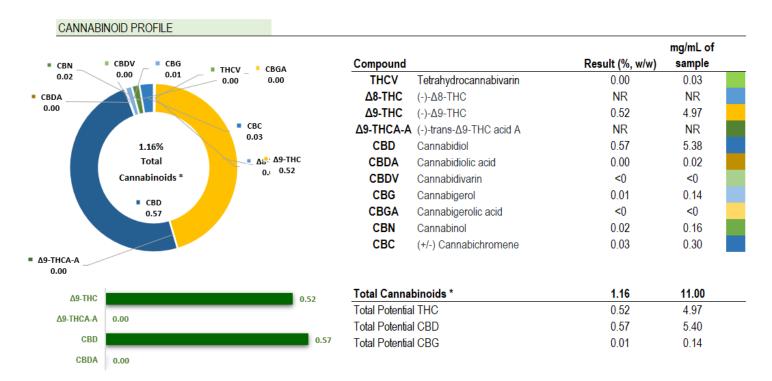
Email: support@cannabistestingsimplified.com

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Easy-to-generate Highly Customizable Reports



Results	Manufacturer`s Values	Measured Values		
Total THC per Unit	4.93 mg/mL	4.97 mg/mL		
Total CBD per Unit	4.98 mg/mL	5.40 mg/mL		

Lower Limit of Quantification (LLOQ)

The lower limit of quantification (LLOQ) is the lowest amount of a cannabinoid in a sample that can be quantitatively determined with suitable precision and accuracy using the corresponding method and dilution rates. All values below this threshold are reported as NR - None Reported.

Compound		LLOQ (%, w/w)
THCV	Tetrahydrocannabivarin	0.01
Δ8-THC	(-)-Δ8-THC	0.01
Δ9-THC	(-)-Δ9-THC	0.01
Δ9-THCA-A	(-)-trans-Δ9-THC acid A	0.01
CBD	Cannabidiol	0.01
CBDA	Cannabidiolic acid	0.01
CBDV	Cannabidivarin	0.01
CBG	Cannabigerol	0.01
CBGA	Cannabigerolic acid	0.01
CBN	Cannabinol	0.01
CBC	(+/-) Cannabichromene	0.01

Instrument Calibration & Quality Control

Date of Quality	Standard	Standard Concentration	Measured Concentration	Delta (%)	PASS/FAIL	Notes	
Control		(ug/mL)	(ug/mL)		·		
11-Apr-21	Benzoic acid	1002.9	1013.0	1.0%	PASS		
11-Apr-21	CBD	100.5	100.7	0.2%	PASS		

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