



Sample Submitted: 04-04-2025; Report Date: 04-09-2025

Plant Material: Hemp Flower

IR spectrum of compound 10. The x-axis represents wavenumber in  $\text{cm}^{-1}$  (ranging from 4000 to 400), and the y-axis represents transmittance in % (ranging from 0 to 100). The spectrum shows several characteristic absorption bands, with the most prominent peak at 694  $\text{cm}^{-1}$ .

Wavenumber ( $\text{cm}^{-1}$ )	Assignment
1800	C=O
1700	C=O
1600	C=C
1500	C=C
1450	C=C
1375	C-H
1321	C-H
1256	C-H
1064	C-H
694	C-H

CBDV <sub>a</sub>	CBDa	CBGA	CBG	THCV <sub>a</sub>	Delta-9-THC	THCa
0.046	0.053	0.432	0.05	0.087	0.294	18.013

## Delta-9-THC

CBD

## Total Cannabinoids

Cannabinoid	% wt	mg/g
CBDVa	0.046	0.46
CBDA	0.053	0.53
CBGA	0.432	4.32
CBG	0.05	0.5
THCVa	0.087	0.87
Delta-9-THC	0.294	2.94
THCA	18.01	180.13
<b>Total Cannabinoids</b>	<b>18.98</b>	<b>189.8</b>
<b>Calculated Total THC</b>	<b>16.09</b>	<b>160.91</b>
<b>Calculated CBD Yield</b>	<b>0.05</b>	<b>0.46</b>

Calculated Total THC = Delta-9-THC + 0.877 \* THCA

Calculated Maximum CBD Yield = CBD + 0.877 \* CBDA

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