

Webinar Series  
Funded by the U.S. Department of Justice

Bureau of Justice Assistance

Capital Litigation Initiative:  
Crime Scene to Courtroom Forensics Training

**Webinar #19: Laboratory Analysis for the Differentiation between  
Marijuana and Hemp**

**Learning Objectives**

After viewing this webinar, you will be able to:

- List four distinguishing characteristics of *cannabis sativa*
- Contrast the characteristics and effects of THC (tetrahydrocannabinol) with CBD (cannabidiol)
- Discuss the impact of the 2018 Farm Bill
- Define the term “hemp”
- Discuss variances in state laws regarding the legal use of marijuana
- Describe the three-step laboratory analysis process for cannabis
- Explain the differences between gas chromatography and liquid chromatography
- Discuss the advantages and disadvantages of threshold analysis
- Describe the challenges surrounding the analysis of edibles, waxes and concentrates
- With regard to laboratory analysis of cannabis, discuss factors for assessing testing and laboratory integrity

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