**Supplemental Information**

**An Method for Separation of Delta 9 THC from Delta 8 THC**

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**Figure S1:** 1H NMR D8THC



**Figure S2:** 13C NMR D8THC



**Figure S3**: HPLC of the mixture of THC isomers from CRM standards.



**Figure S4**: HPLC of the synthesized THC mixture of isomers.



**Figure S5**: HPLC of synthesized THC following the removal of D9 THC.