

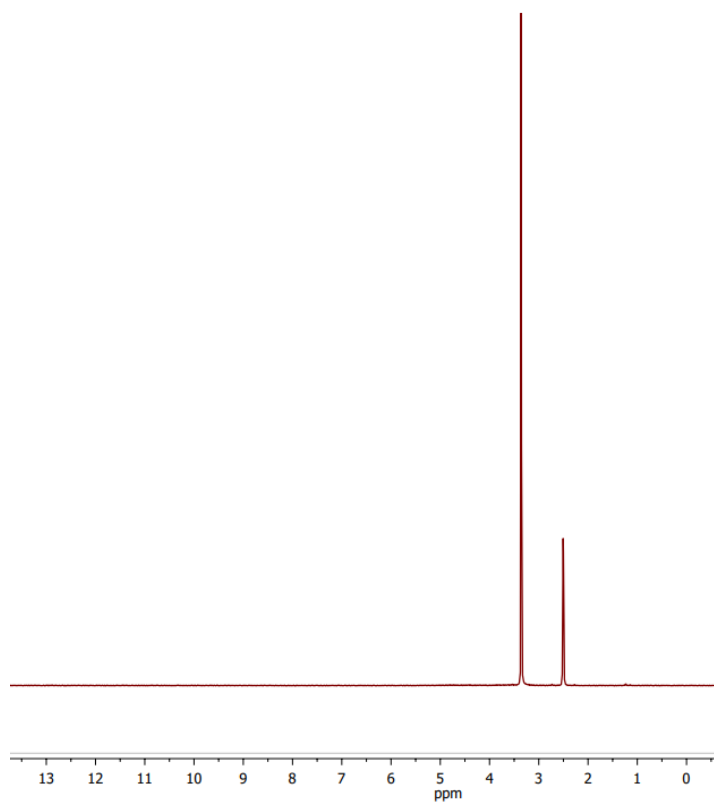
## Electronic supplementary information for manuscript

### “Solid dispersions of fenbendazole with polymers and succinic acid obtained by methods of mechanochemistry, their chemical stability and anthelmintic efficiency”

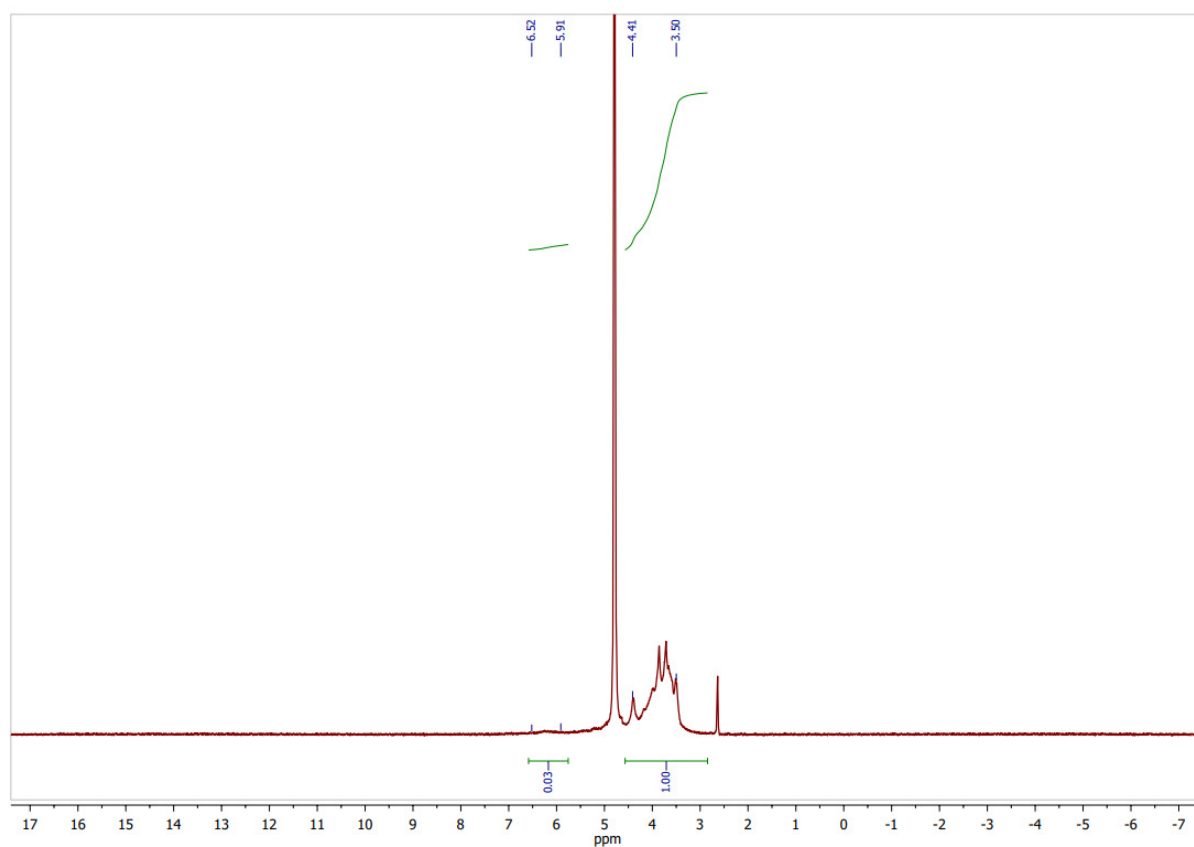
Salavat Khalikov, Ekaterina Khakina, Marat Khalikov and Anastasiya Varlamova

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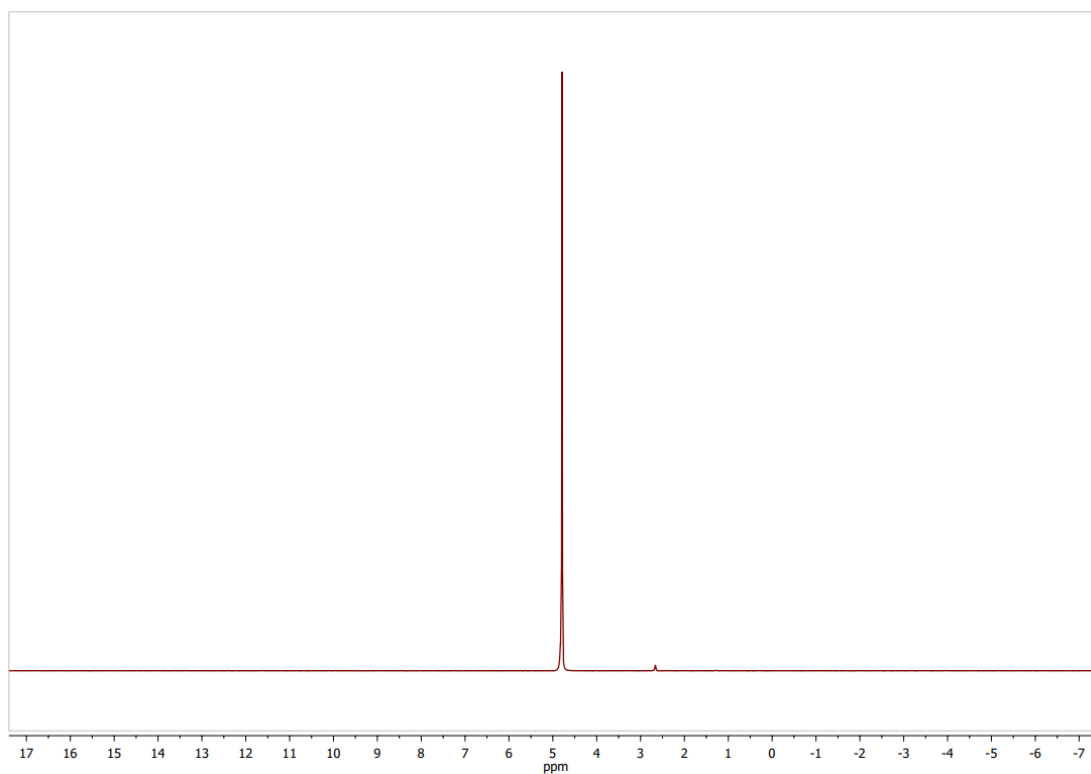
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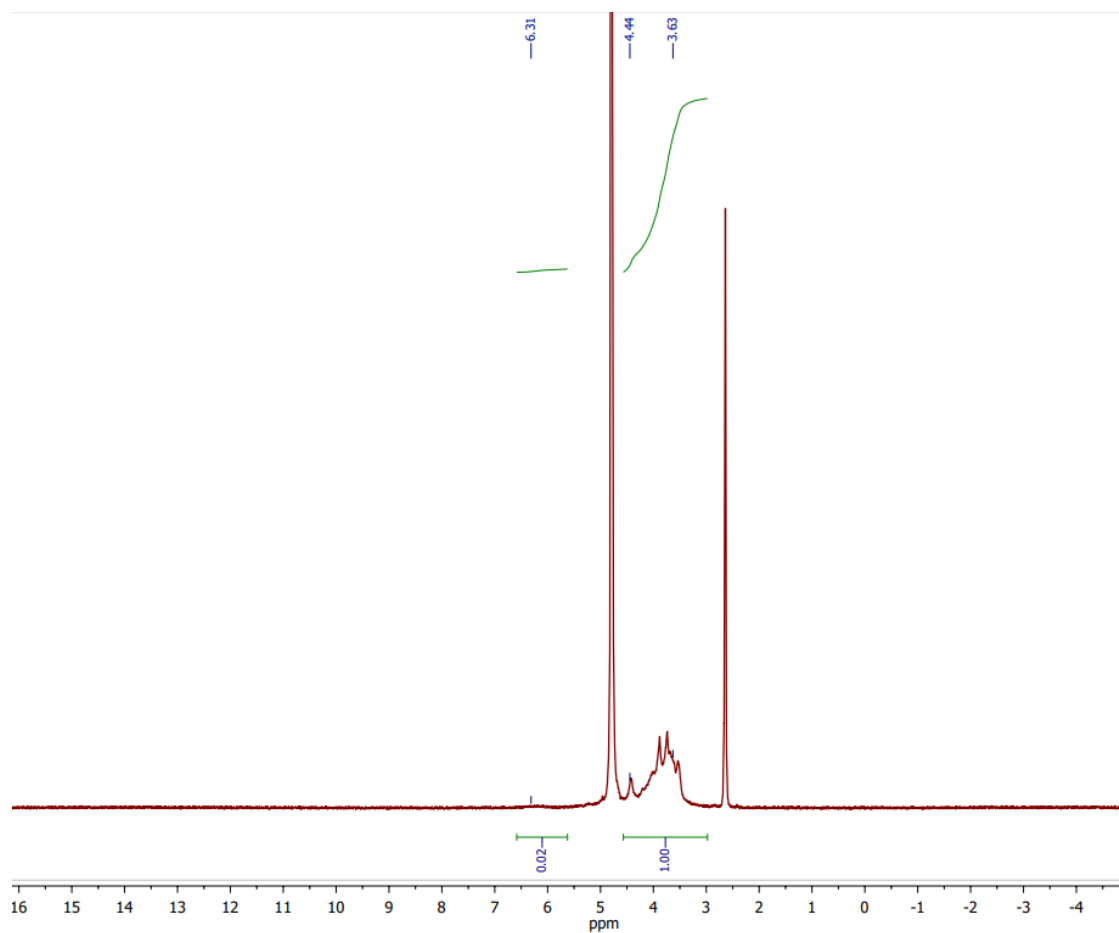
**Figure S1.**  $^1\text{H}$  NMR spectrum of AG (solvent –  $\text{DMSO-d}_6$ ).



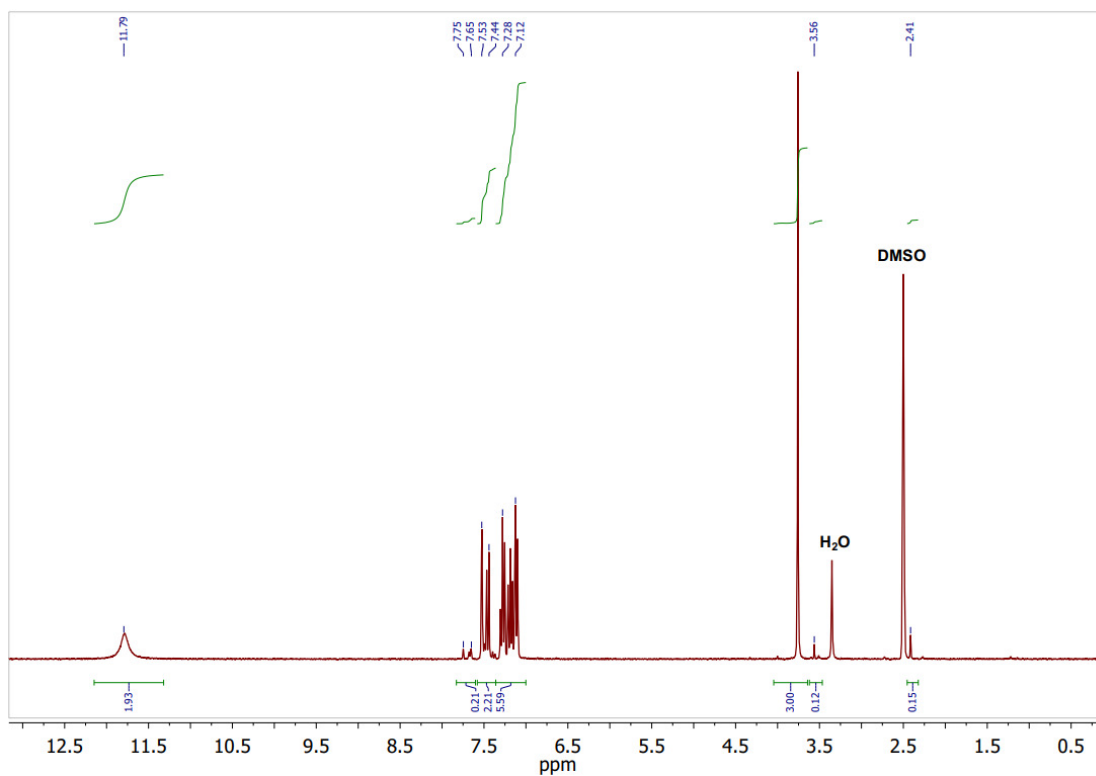
**Figure S2.**  $^1\text{H}$  NMR spectrum of AG (solvent –  $\text{D}_2\text{O}$ ).



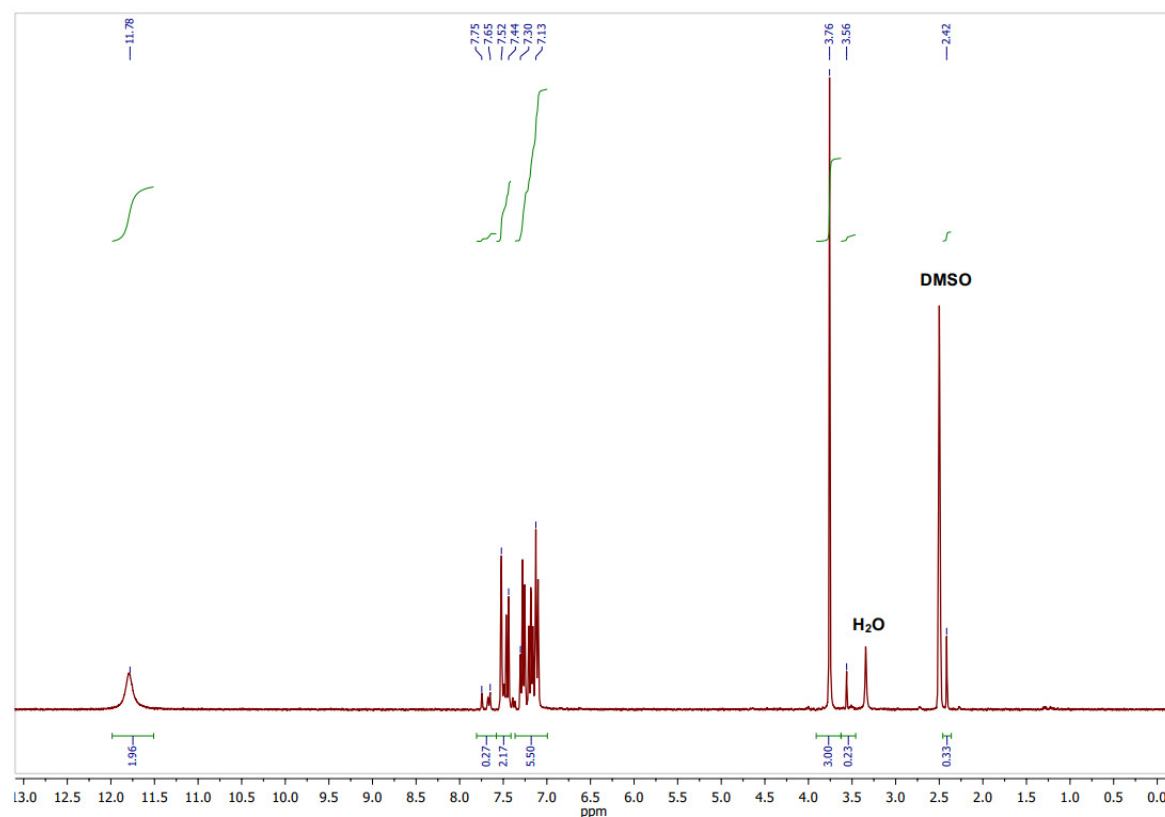
**Figure S3.**  $^1\text{H}$  NMR spectrum of FBZ (solvent –  $\text{D}_2\text{O}$ ).



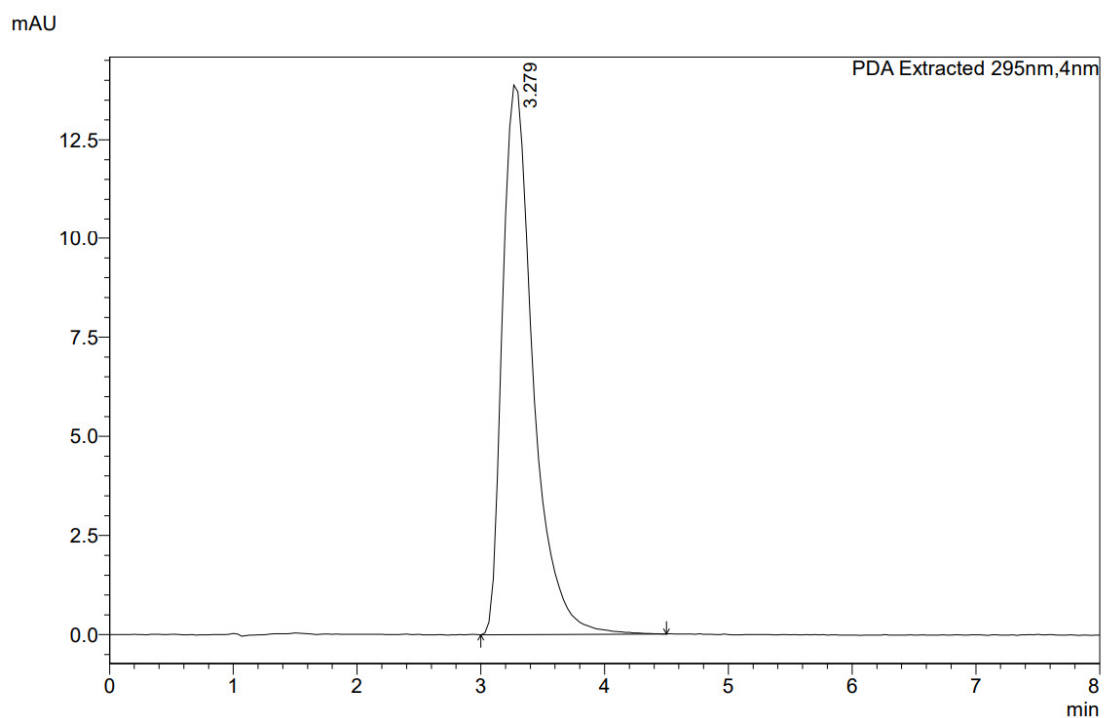
**Figure S4.**  $^1\text{H}$  NMR spectrum of SD with compositions FBZ:AG (solvent –  $\text{D}_2\text{O}$ ).



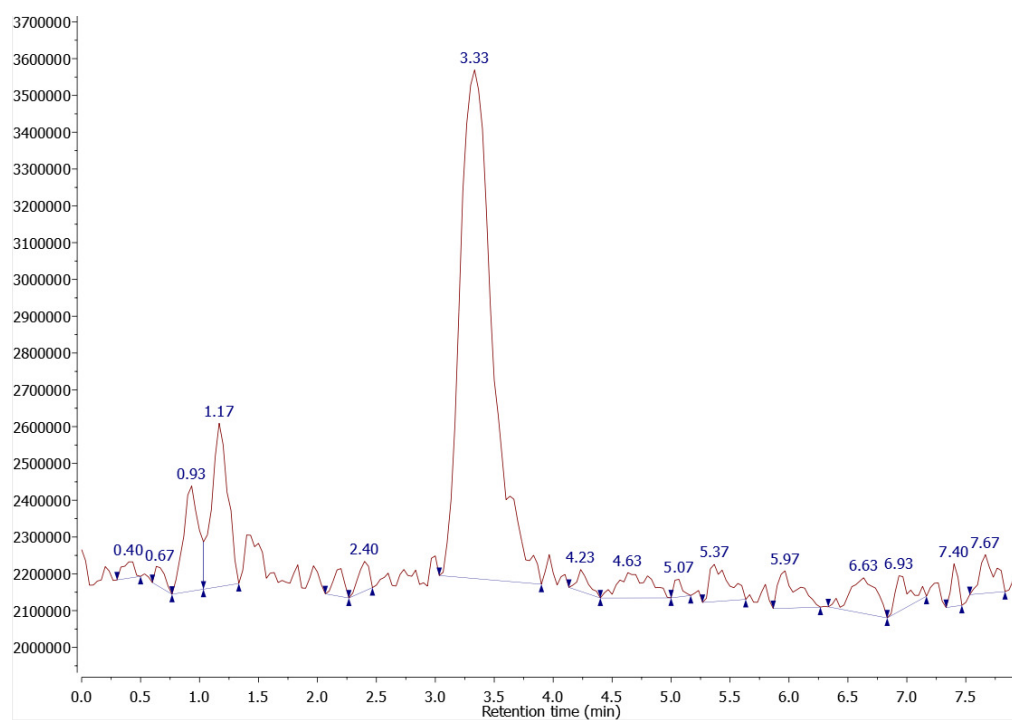
**Figure S5.** <sup>1</sup>H NMR spectrum of the FBZ and succinic acid reaction product II (solvent DMSO-d<sub>6</sub>).



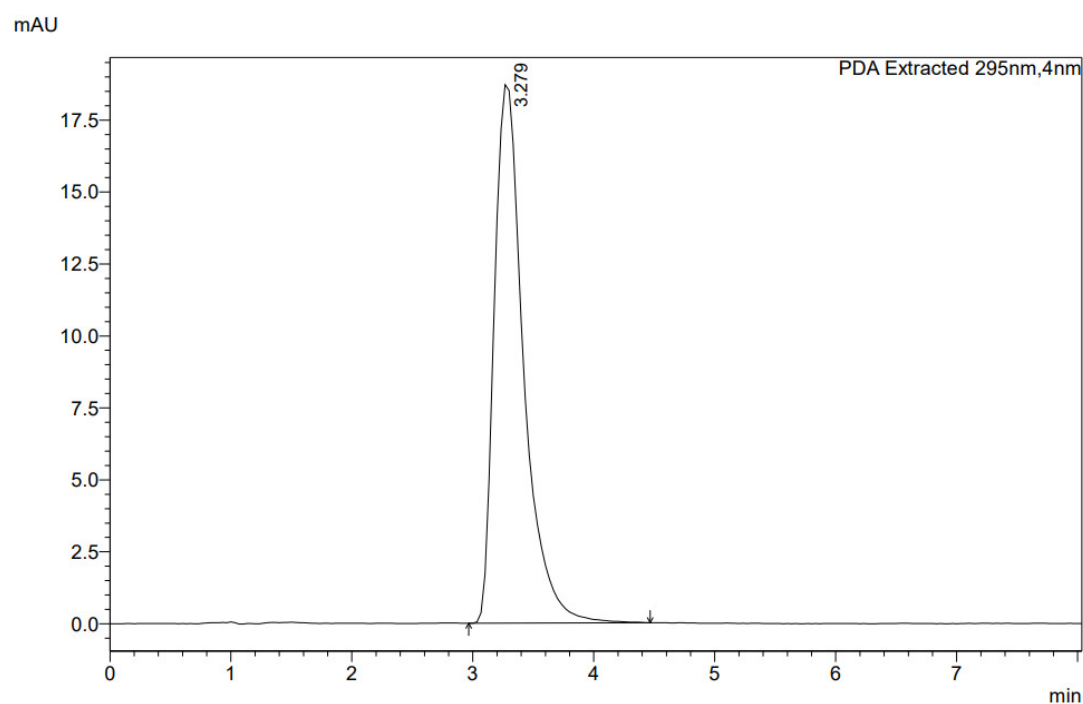
**Figure S6.** <sup>1</sup>H NMR spectrum of the FBZ and succinic acid reaction product III (solvent DMSO-d<sub>6</sub>).



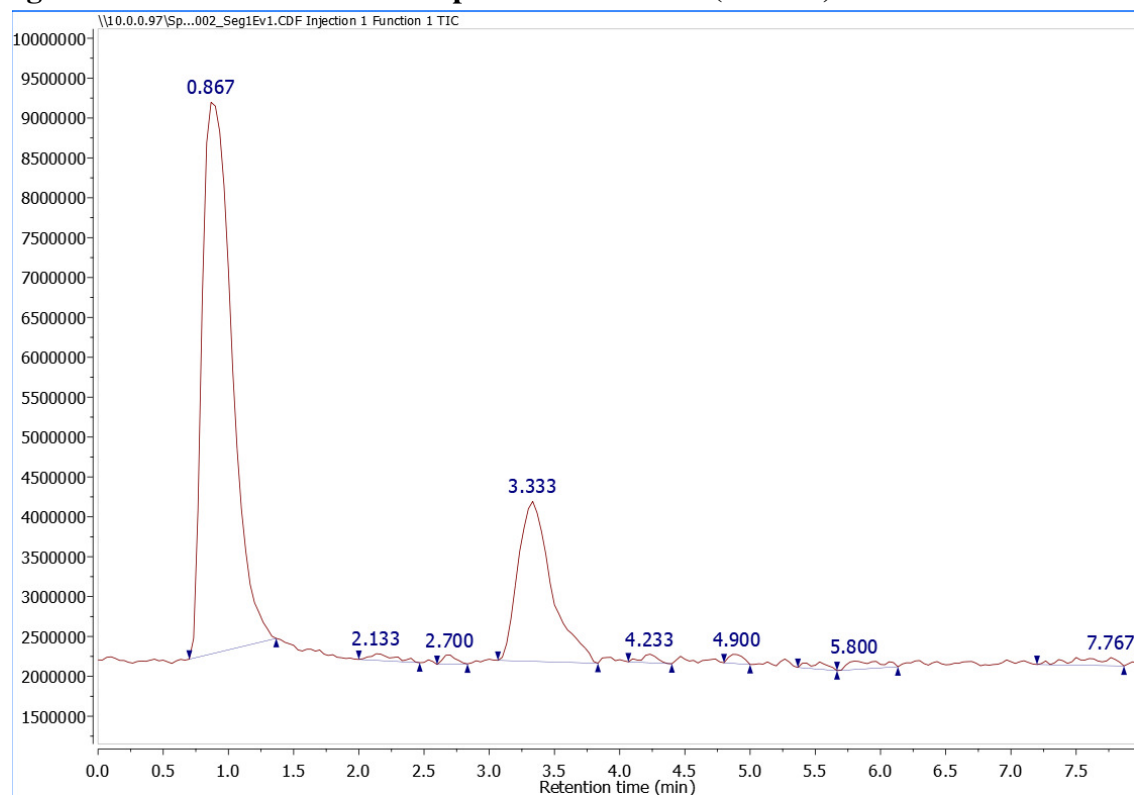
**Figure S7. HPLC of SD with composition FBZ:PVP:SA (295 nm)**



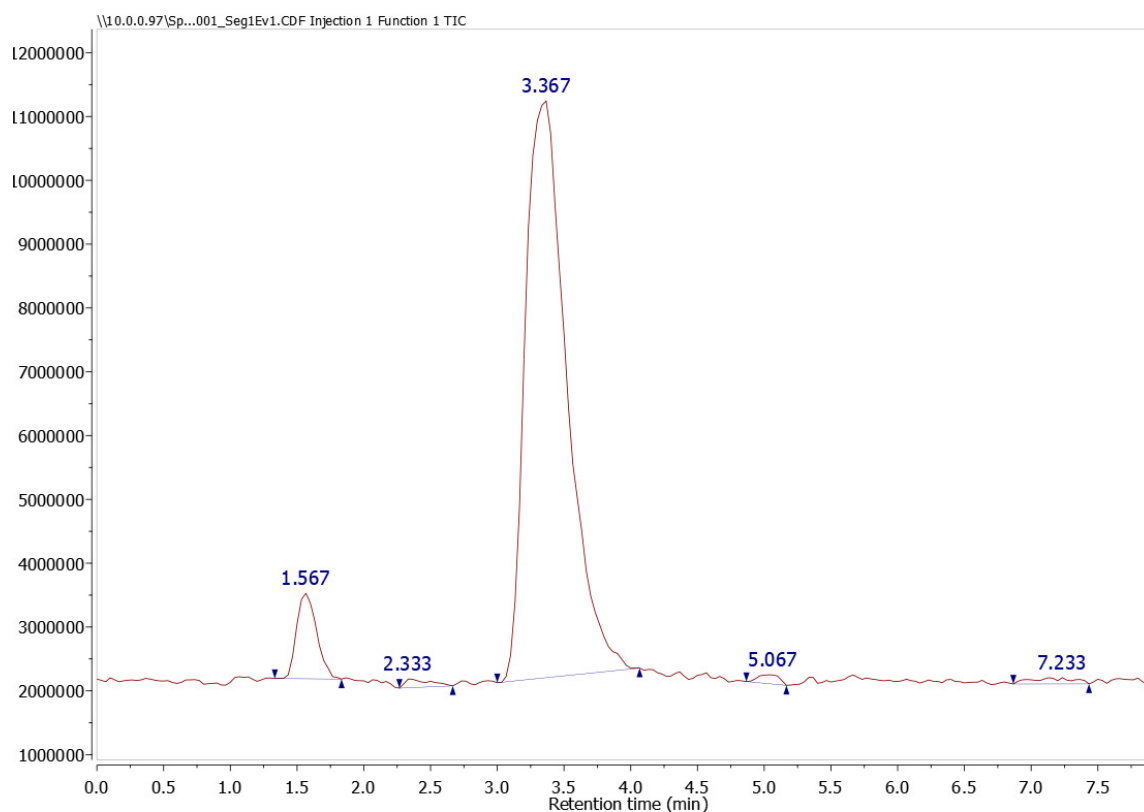
**Figure S8. Total ion current chromatogram of SD with composition FBZ:PVP:SA**



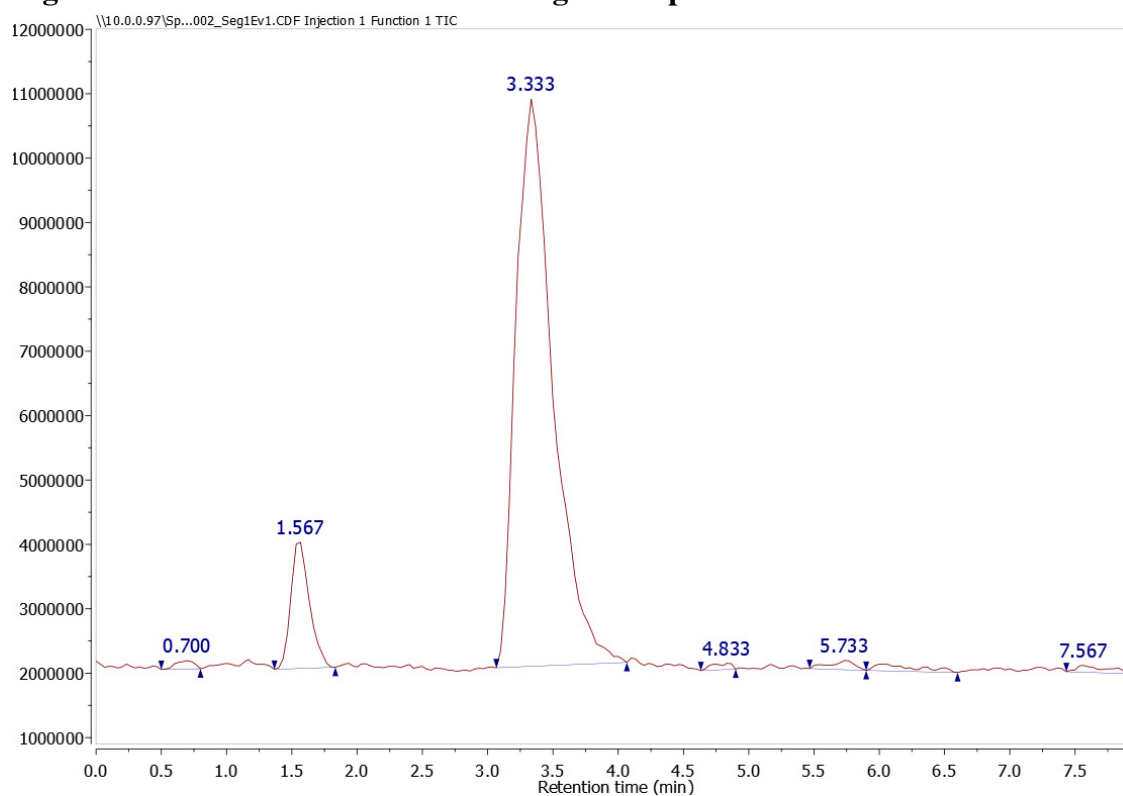
**Figure S9. HPLC of SD with composition FBZ:PVP (295 nm)**



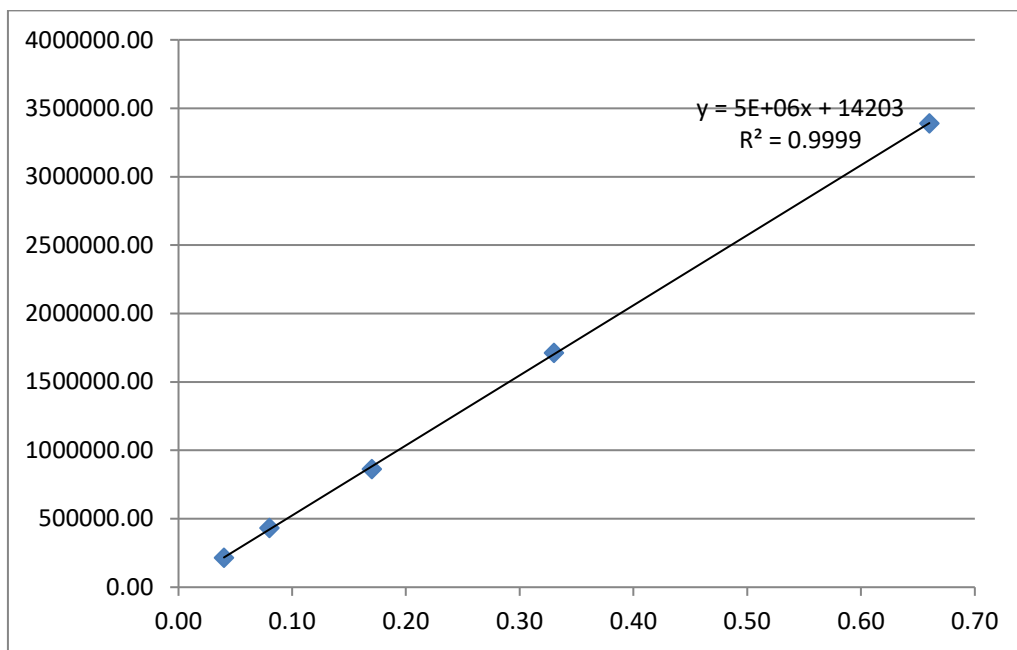
**Figure S10. Total ion current chromatogram of SD with composition FBZ:PVP (signal at 0.867 min corresponds to PVP)**



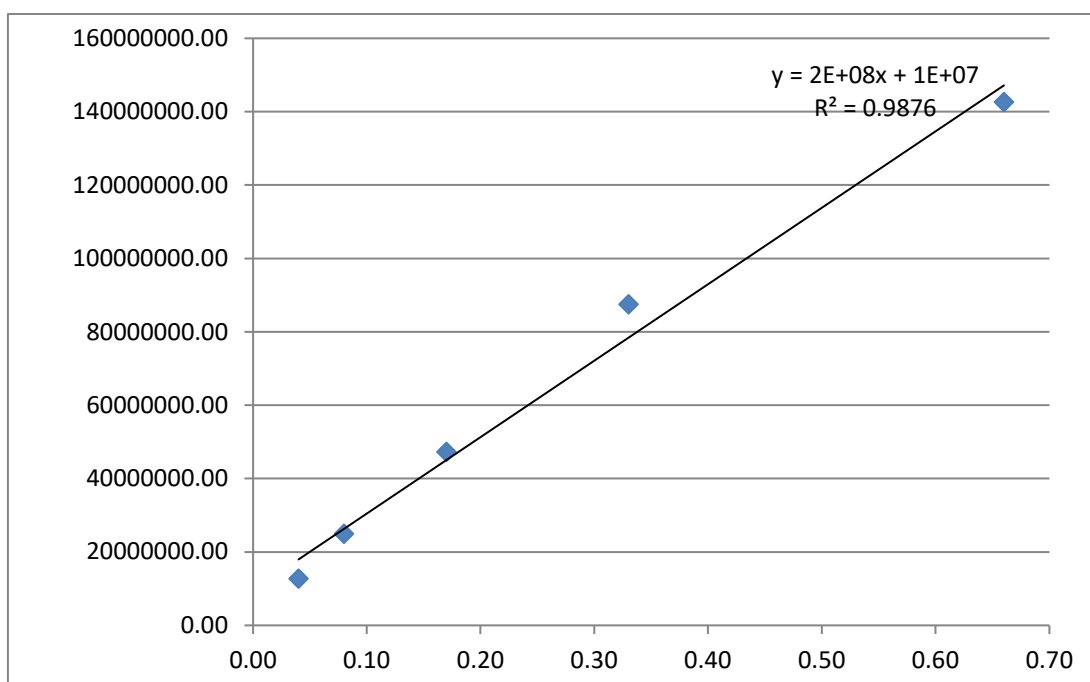
**Figure S11. Total ion current chromatogram of product II**



**Figure S12. Total ion current chromatogram of product III**



**Figure S13. Outer standard method calibration for FBZ quantification (295 nm)**



**Figure S14. Outer standard method calibration for FBZ quantification (total ion current for positive ions)**