**Stabilization of resveratrol in blood circulation by conjugation to mPEG and mPEG-PLA polymers: investigation of conjugate linker and polymer composition on stability, metabolism, antioxidant activity and pharmacokinetic profile.**

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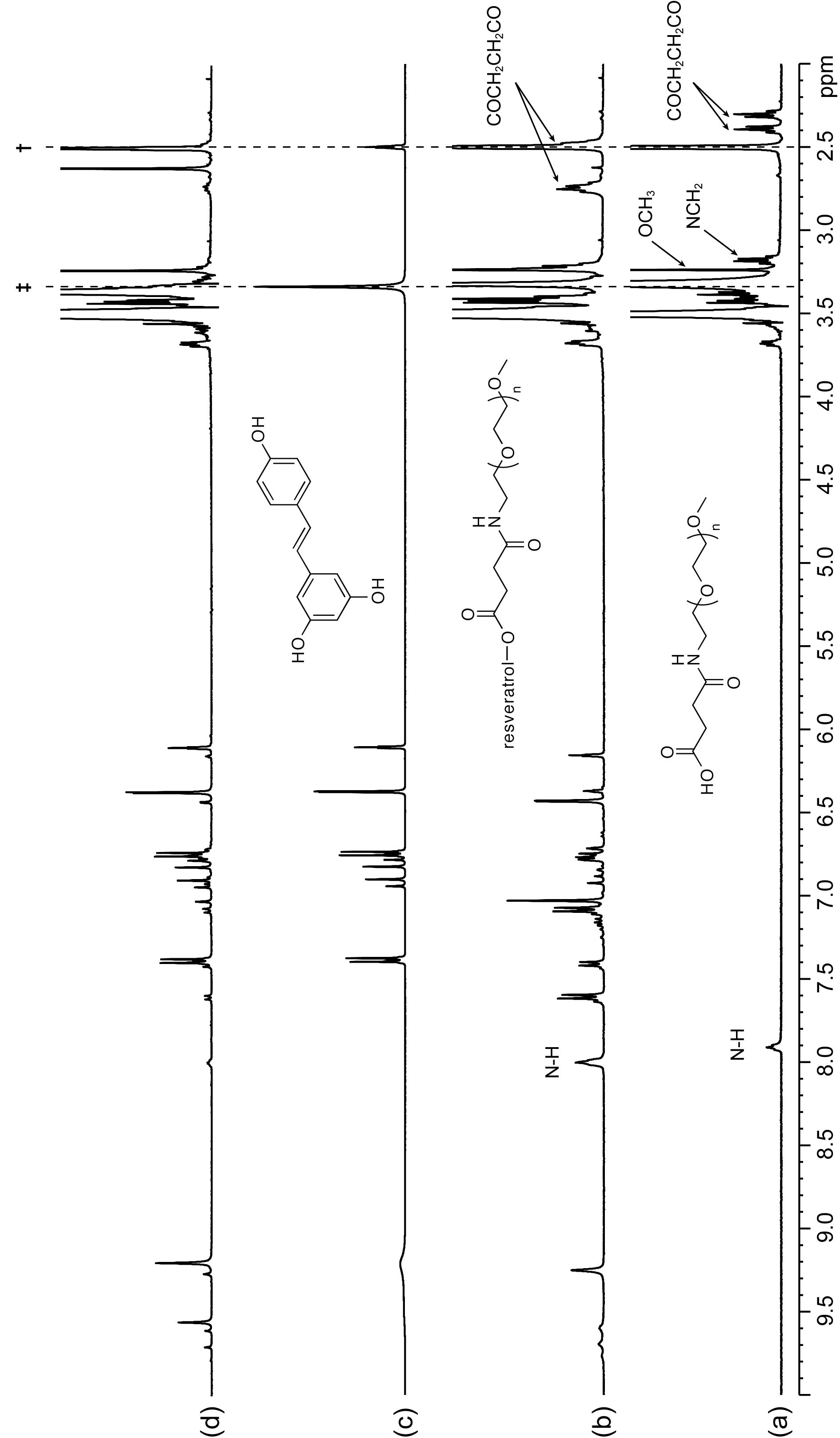
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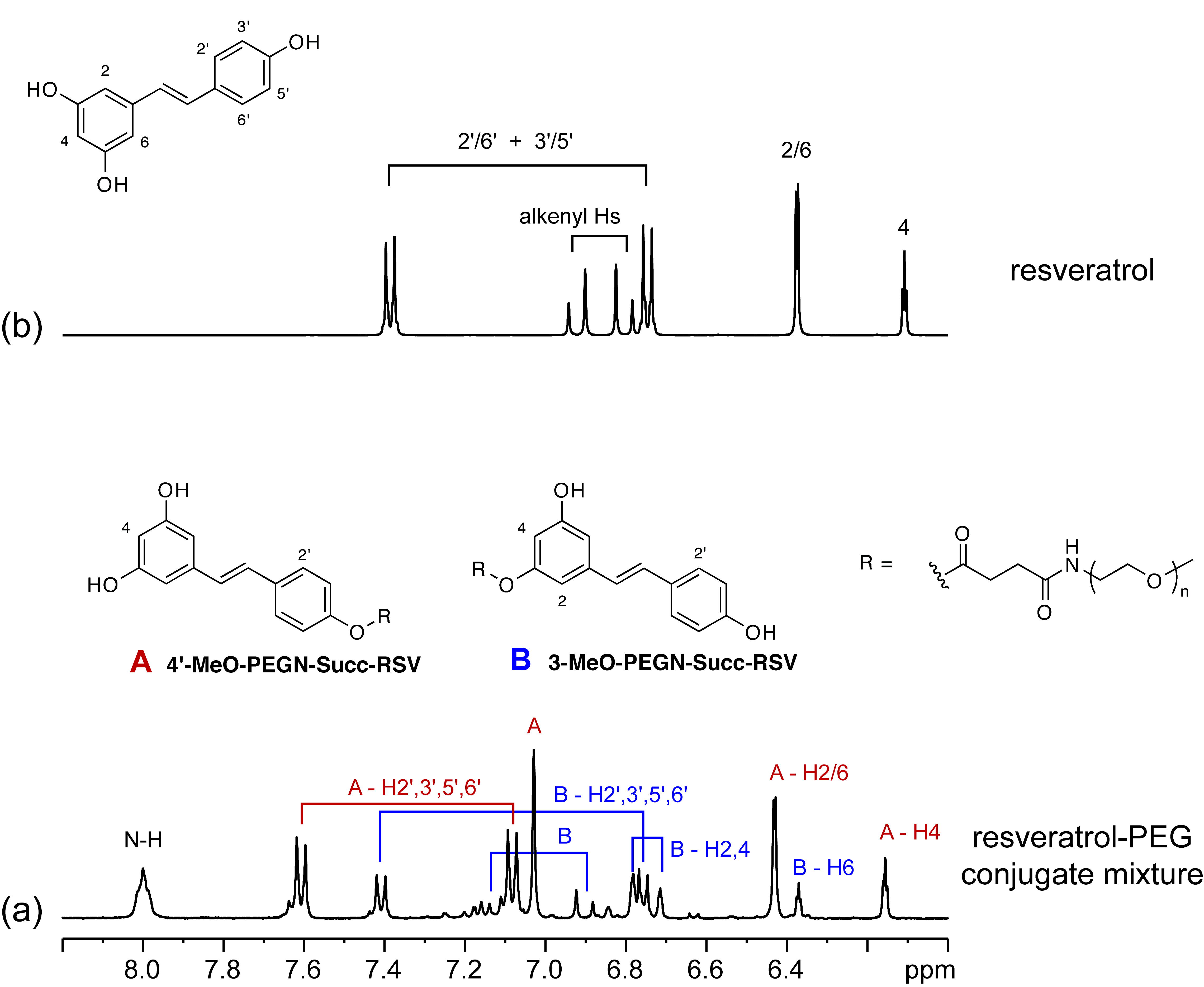
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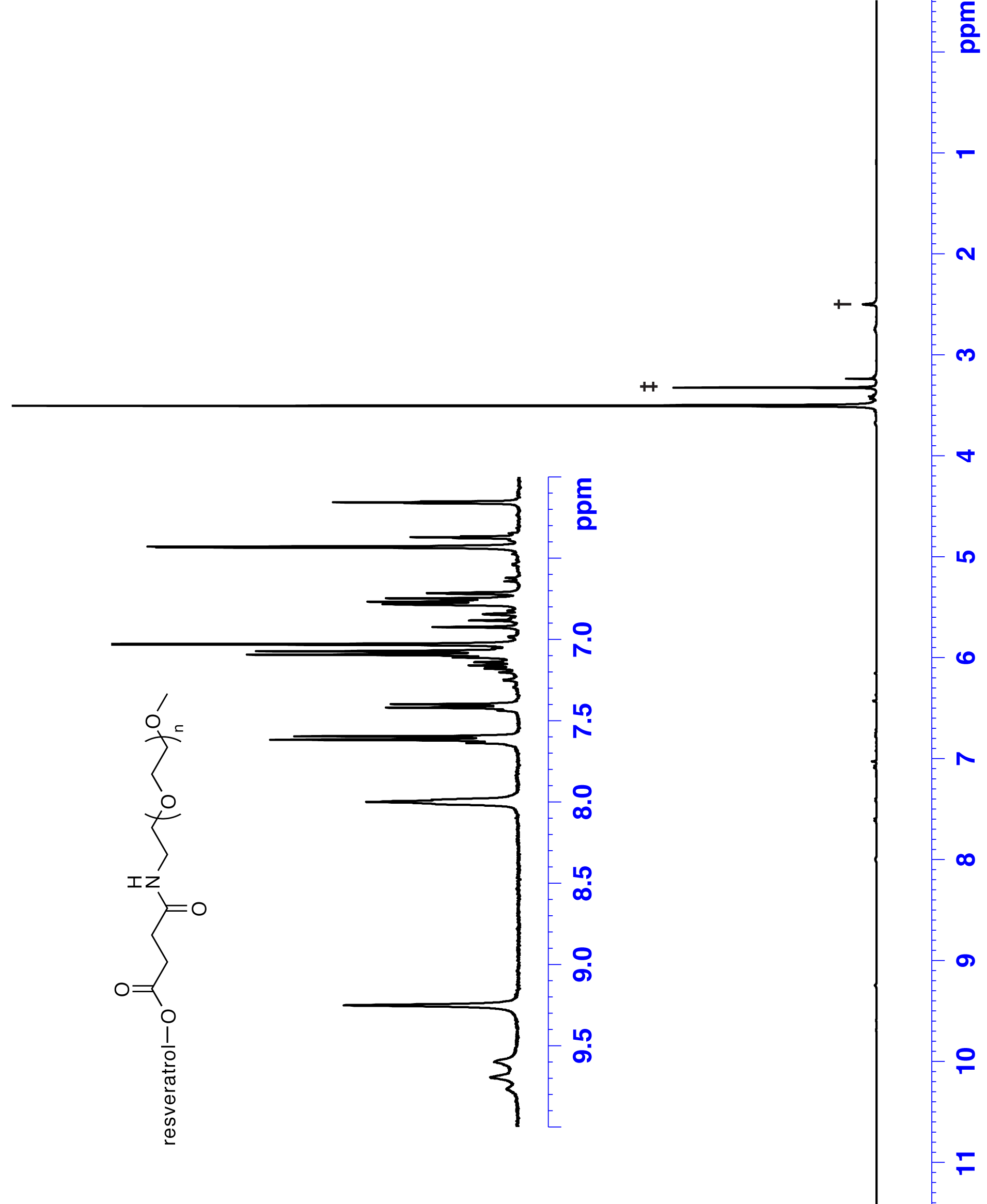
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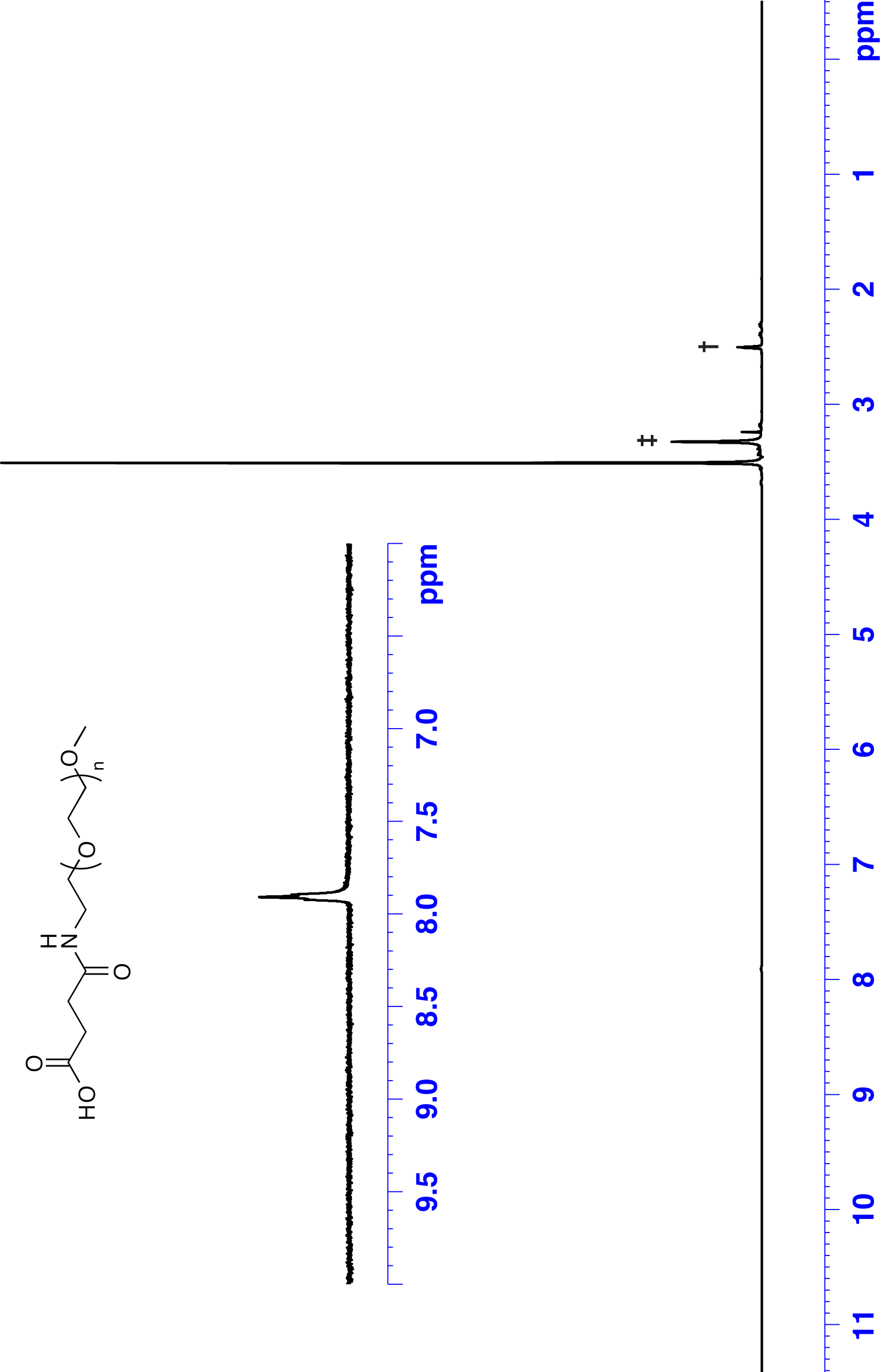
**Figure A**. 1H NMR spectra (400 MHz) for: (a) MeO-PEGN-SuccOH; (b) the resveratrol-PEG conjugate mixture from the synthesis of MeO-PEGN-Succ-RSV; (c) resveratrol; and (d) the solution from (b) after treatment with water and heat (90 °C) for *ca.* 1 week). All solutions are in *d*6-DMSO. Key: † = *d*5-DMSO, ‡ = H2O. To identify the low intensity down-field signals the spectra in (a), (b) and (d) have been expanded vertically.



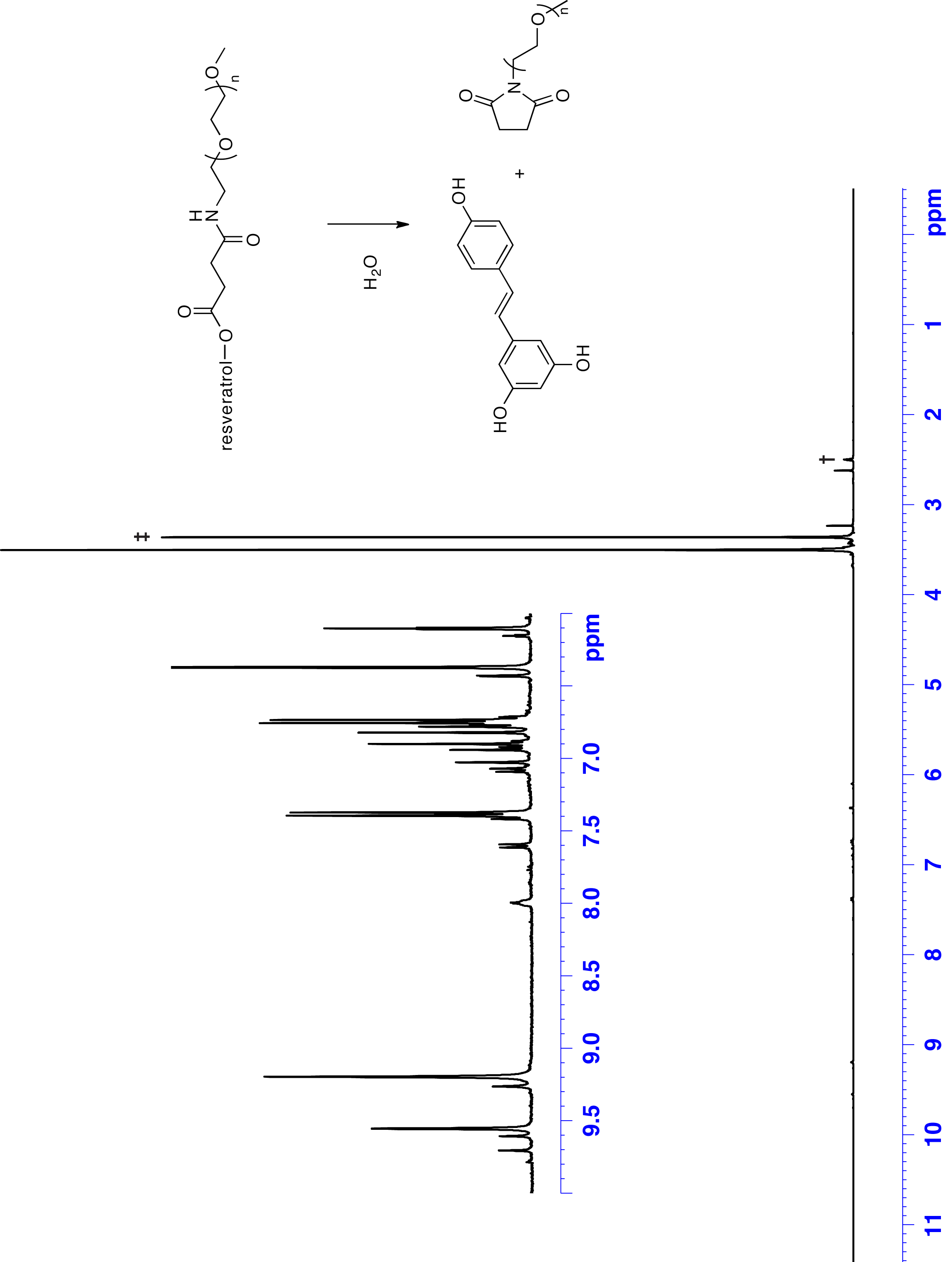
**Figure B**. The down field region of the 1H NMR spectra (400 MHz) for: (a) a solution of the resveratrol-PEG conjugate mixture in *d*6-DMSO showing the assigned signals for the two major products **4'-MeO-PEGN-Succ-RSV** and **3-MeO-PEGN-Succ--RSV**; and (b) a solution of resveratrol in *d*6-DMSO.



**Figure C**. 1H NMR spectra for the MeO-PEGN-Succ-RSV conjugate mixture in *d*6-DMSO, recorded at 400 MHz. Key: † = *d*5-DMSO, ‡ = H2O.



**Figure D**. 1H NMR spectra for MeO-PEGN-Succ-OH in *d*6-DMSO, recorded at 400 MHz. Key: † = *d*5-DMSO, ‡ = H2O.



**Figure E**. 1H NMR spectra of the MeO-PEGN-Succ-RSV conjugate mixture after treatment with water and heat (90 °C) for *ca.* 1 week, in *d*6-DMSO, recorded at 400 MHz. Key: † = *d*5-DMSO, ‡ = H2O.