

Electronic Supplementary Information

Prednisolone- α -cyclodextrin-star poly(ethylene glycol) polypseudorotaxanes with controlled drug delivery properties

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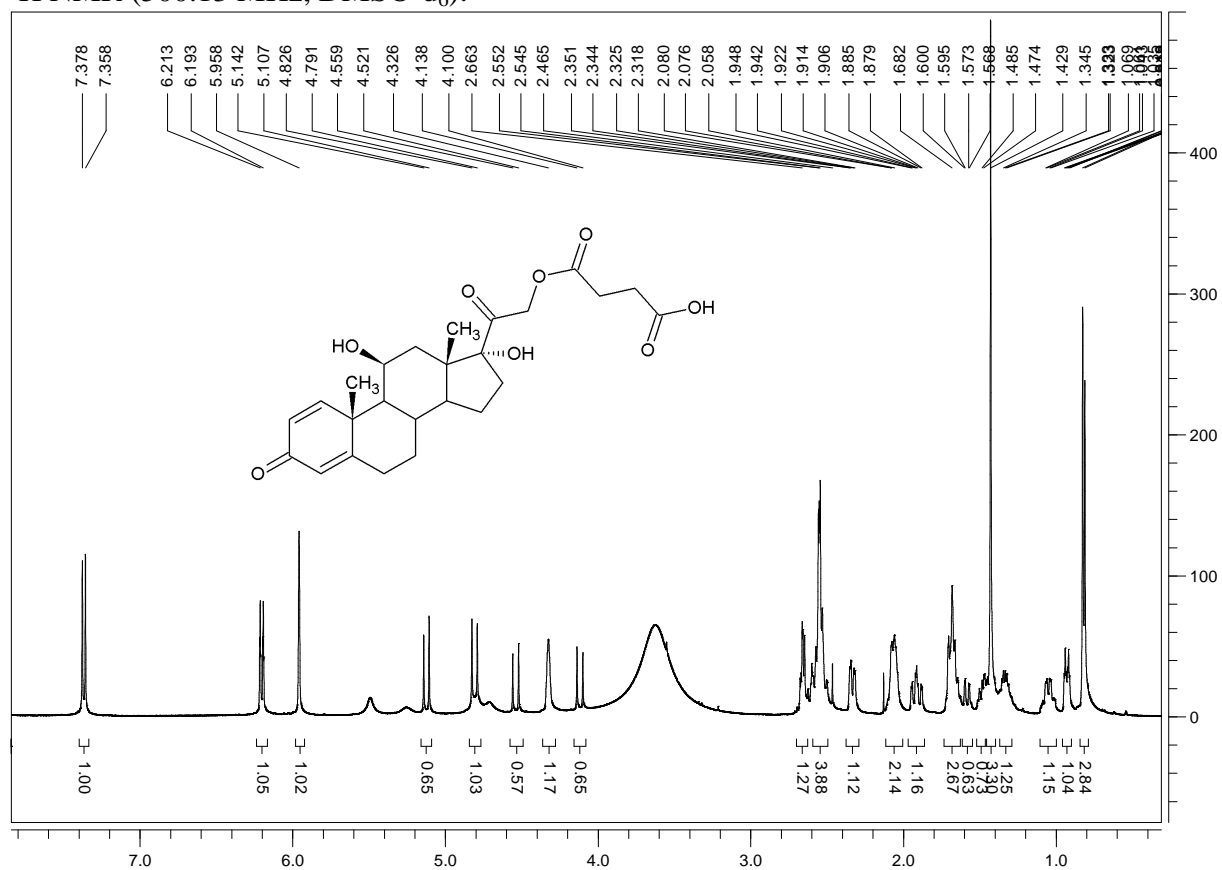
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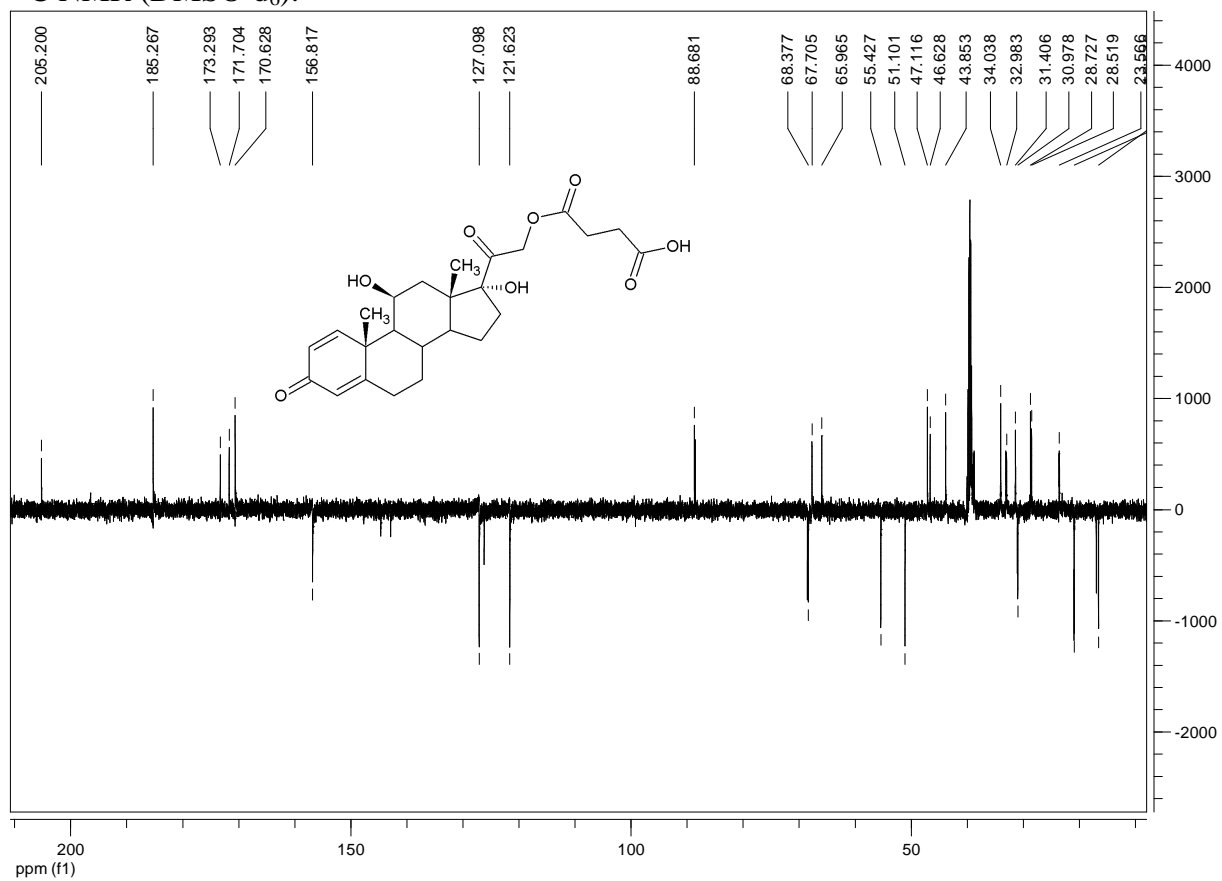
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Prednisolone 21-hemisuccinate(2a)

^1H NMR (500.13 MHz, DMSO- d_6):

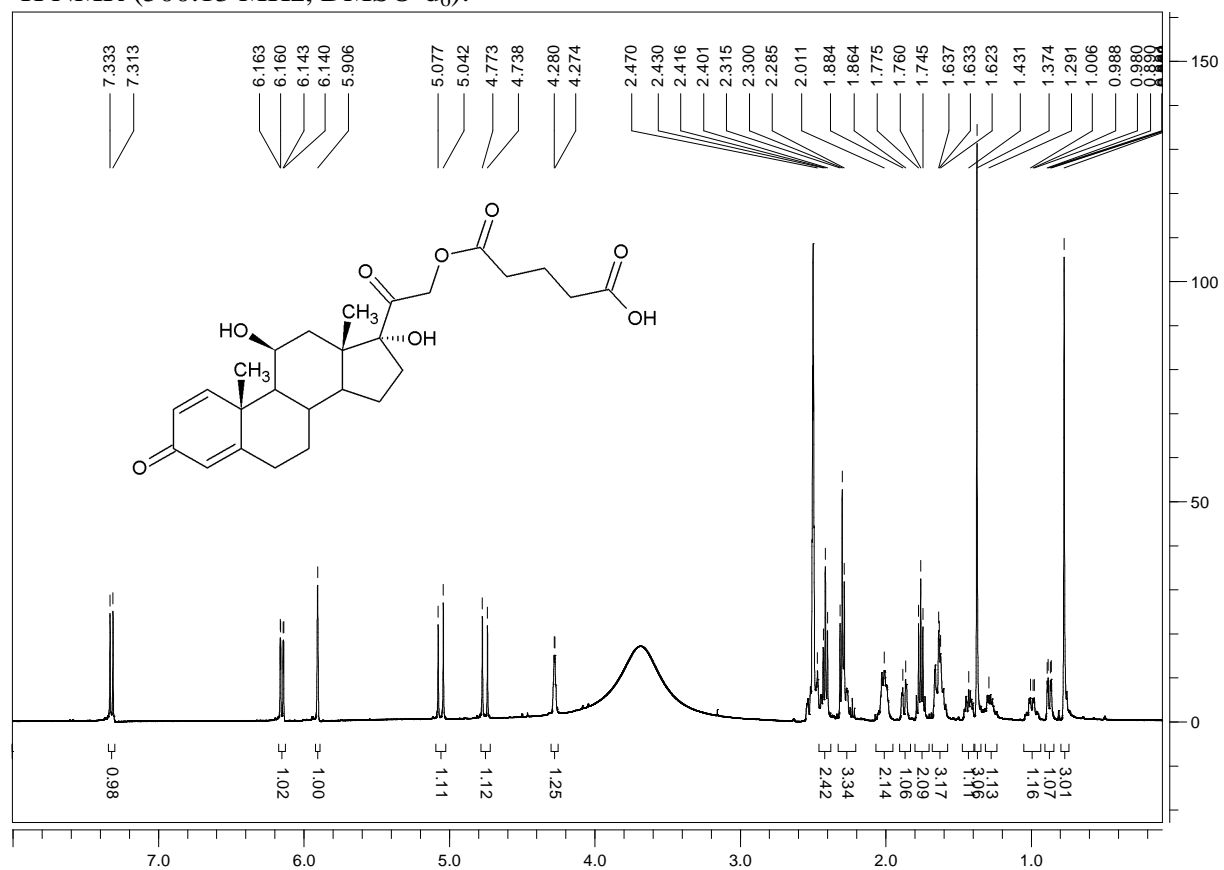


^{13}C NMR (DMSO- d_6):

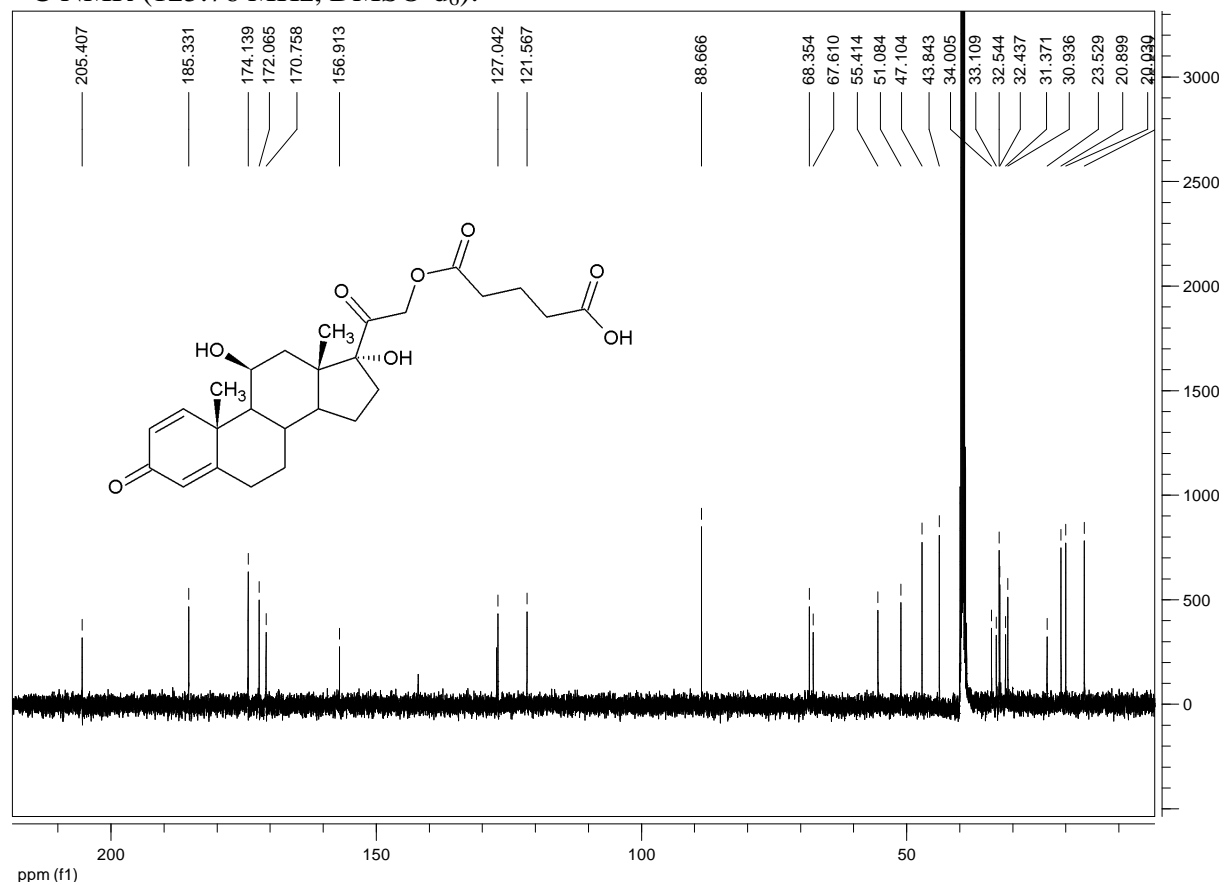


Prednisolone 21-hemiglutarate (2b)

^1H NMR (500.13 MHz, DMSO-d_6):

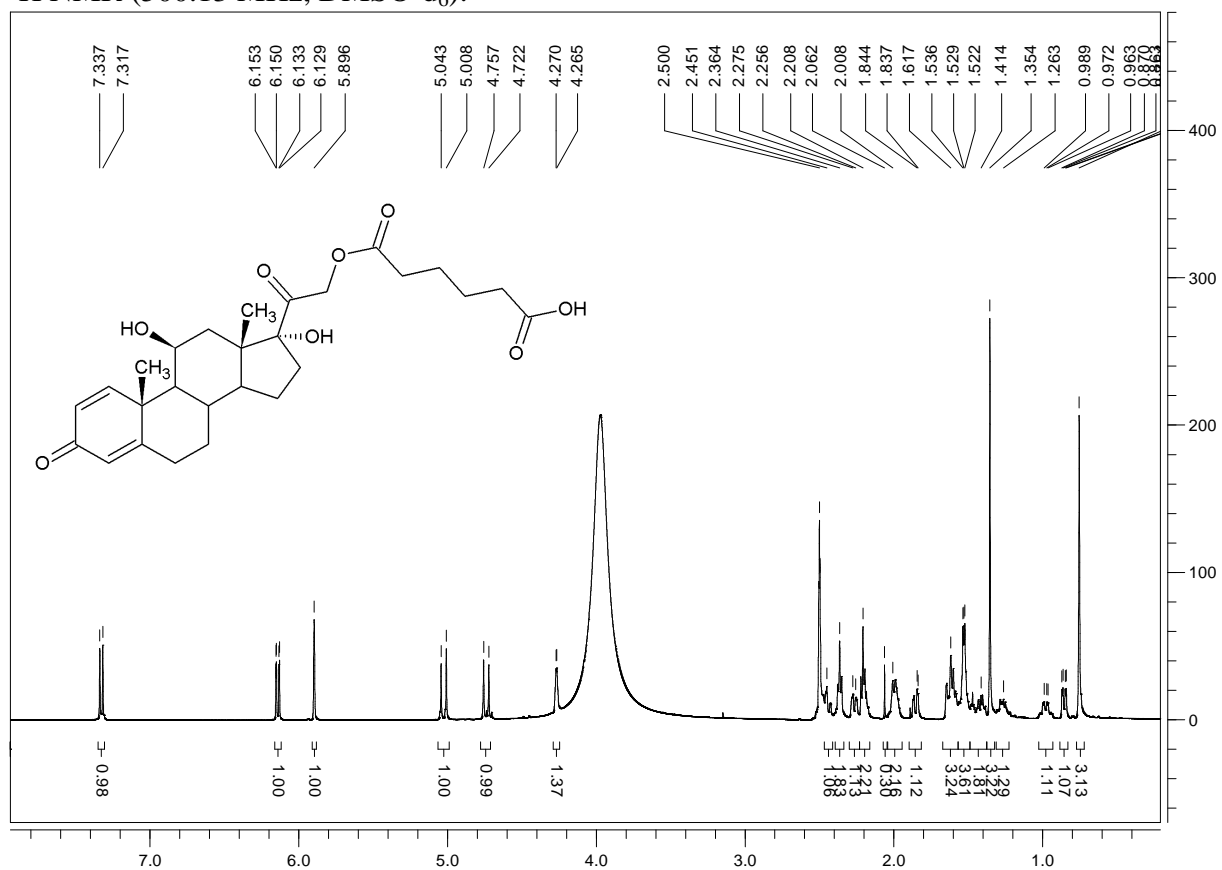


^{13}C NMR (125.76 MHz, DMSO-d_6):

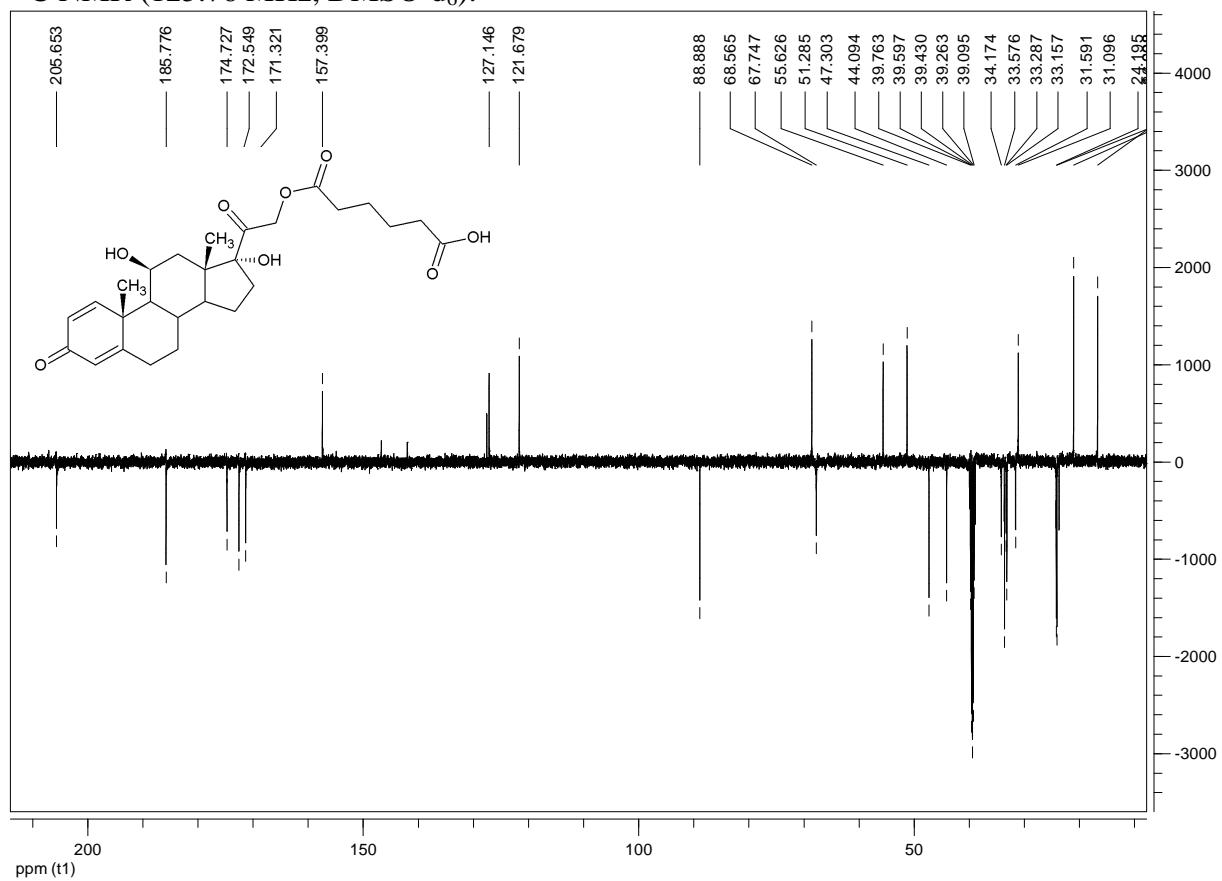


Prednisolone 21-hemidiacetate (2c)

^1H NMR (500.13 MHz, DMSO-d_6):

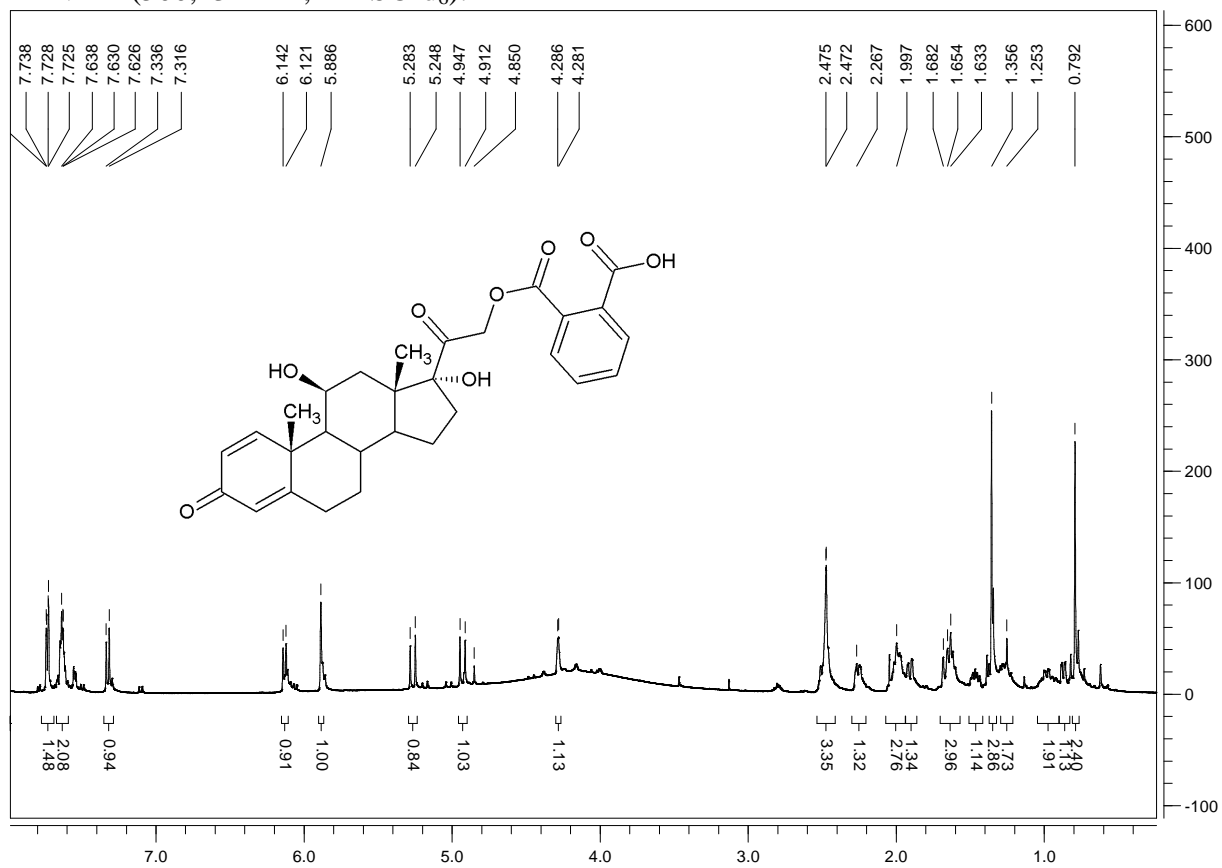


^{13}C NMR (125.76 MHz, DMSO-d_6):

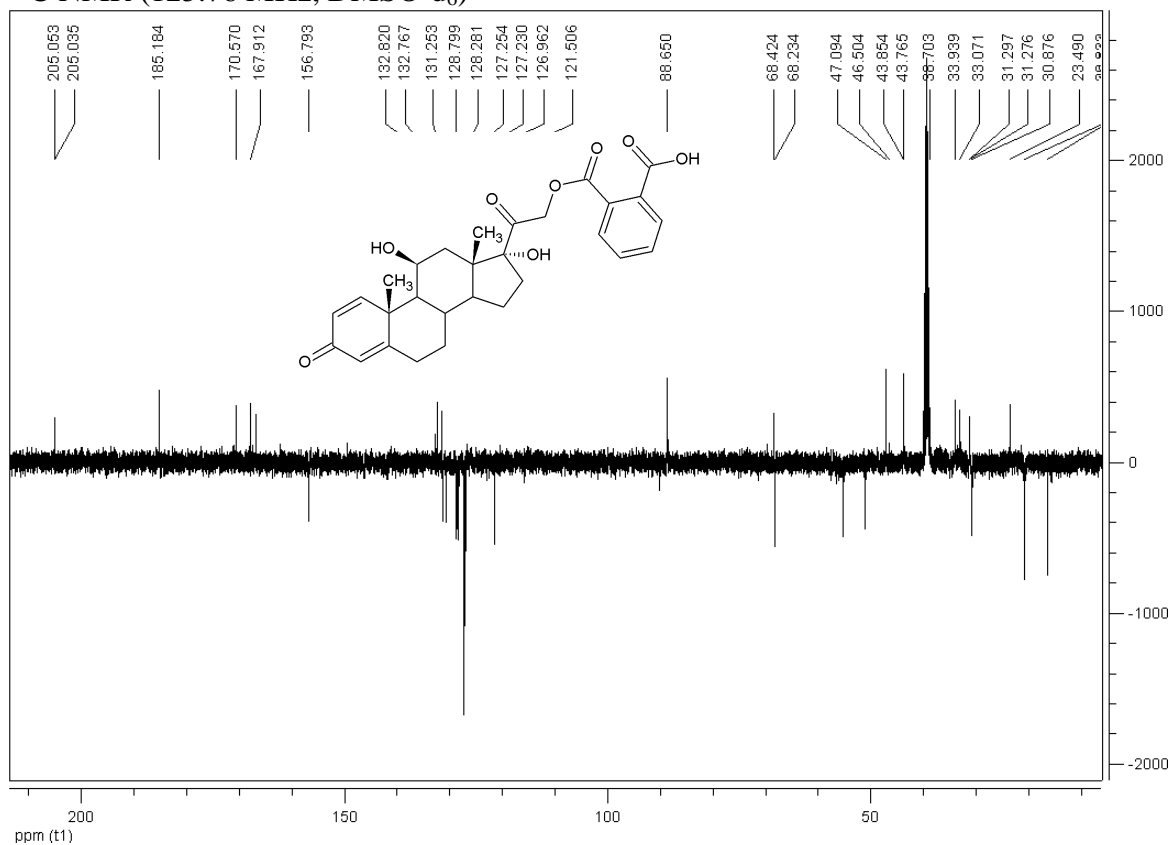


Prednisolone 21-hemiphthalate (2d)

^1H NMR (500,13 MHz, DMSO- d_6):

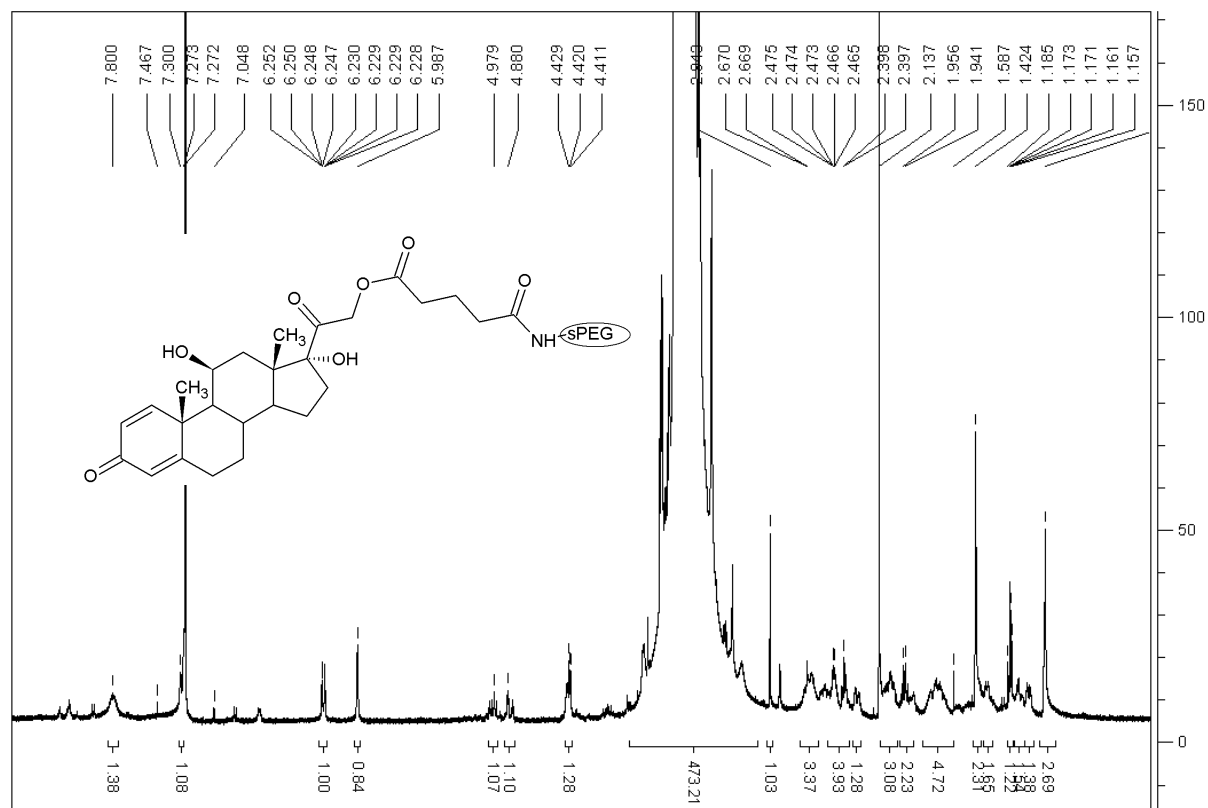


^{13}C NMR (125.76 MHz, DMSO- d_6):



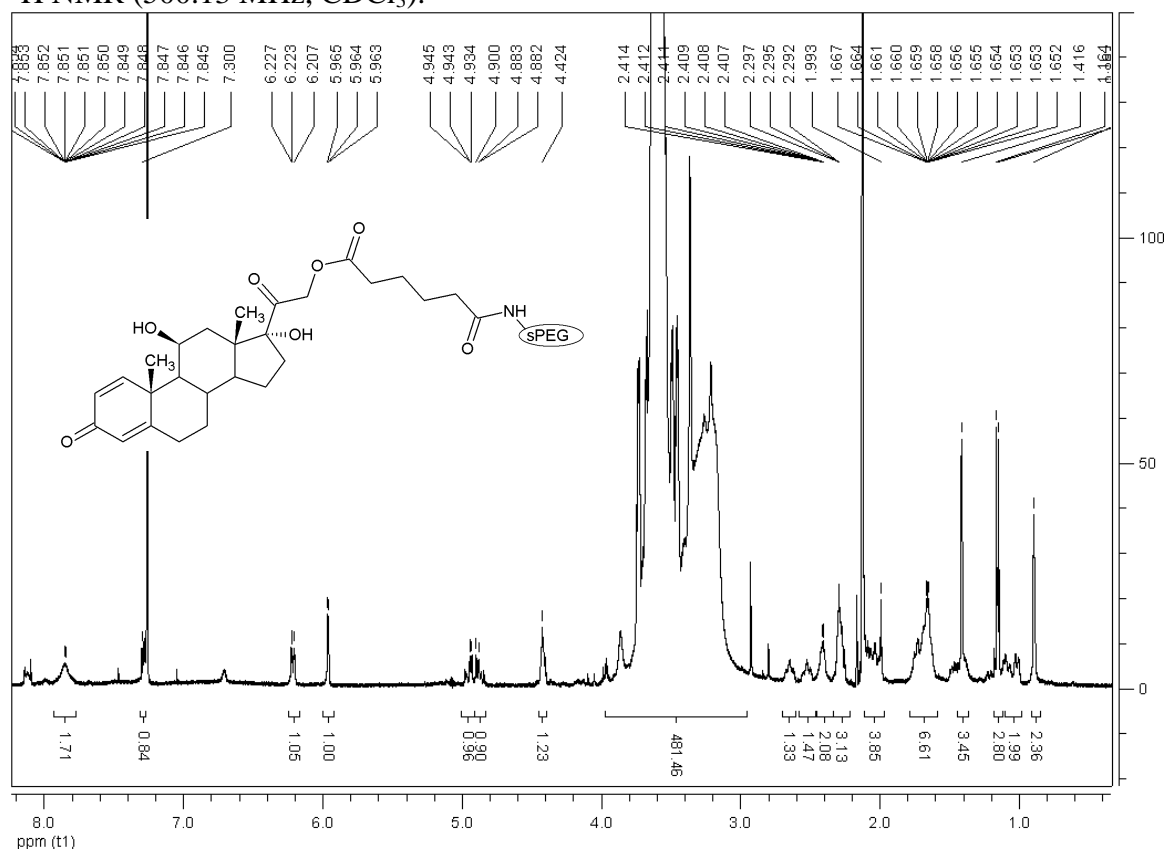
Star poly(ethylene glycol)amid-glutarate-ester-prednisolone (1c)

¹H NMR (500.13 MHz, CDCl₃):



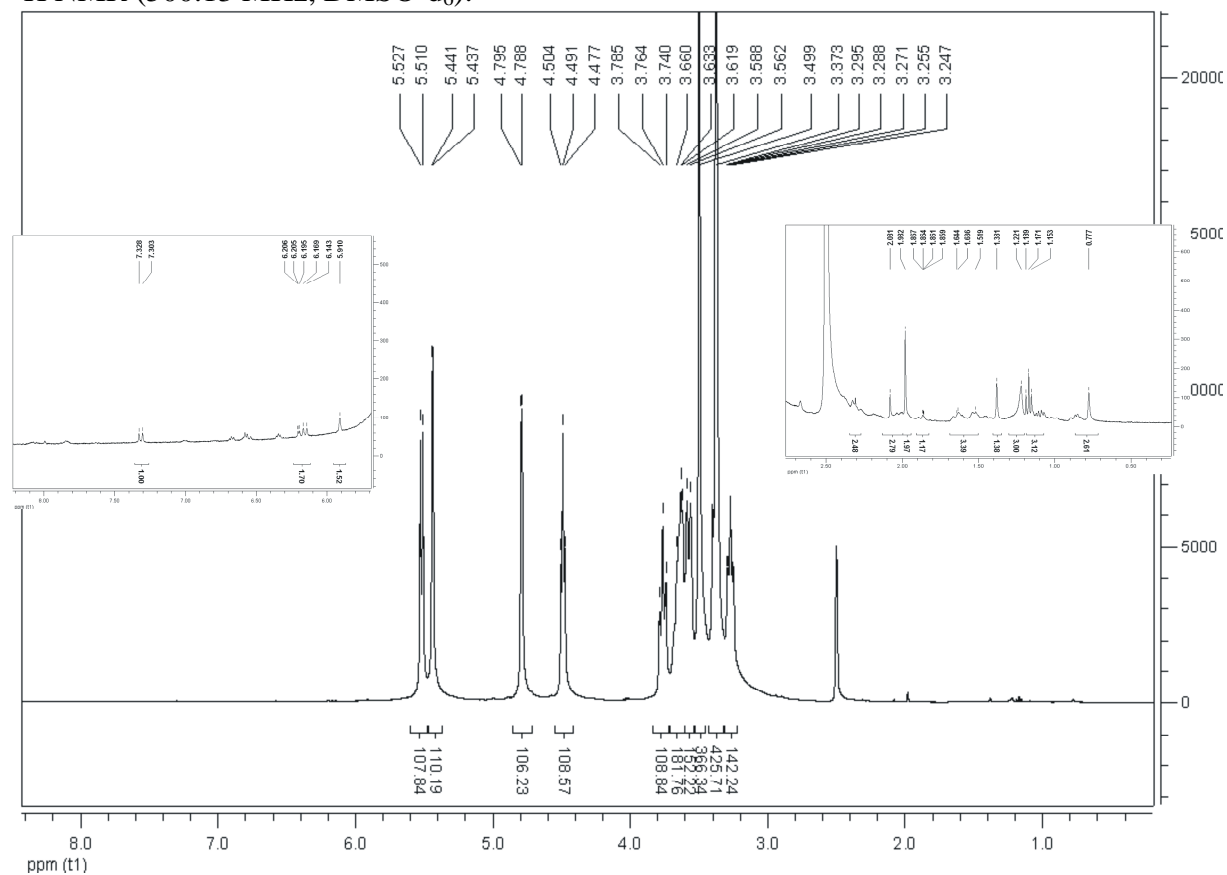
Star poly(ethylene glycol)amid-adipate-ester-prednisolone (1d)

¹H NMR (500.13 MHz, CDCl₃):

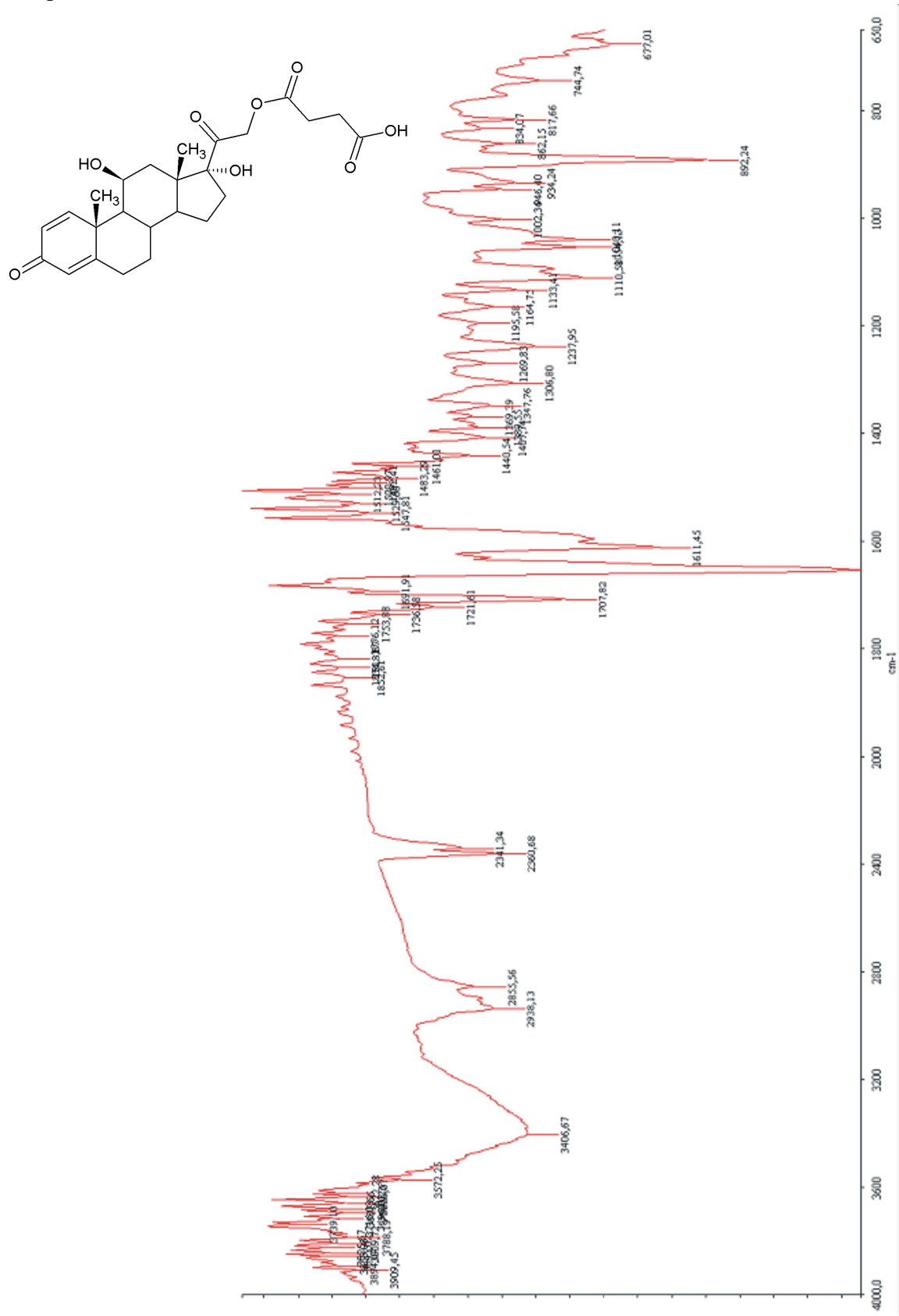


Polypseudorotaxane of α -cyclodextrin-star poly(ethylene glycol)amid-adipate-ester-prednisolone (3d)

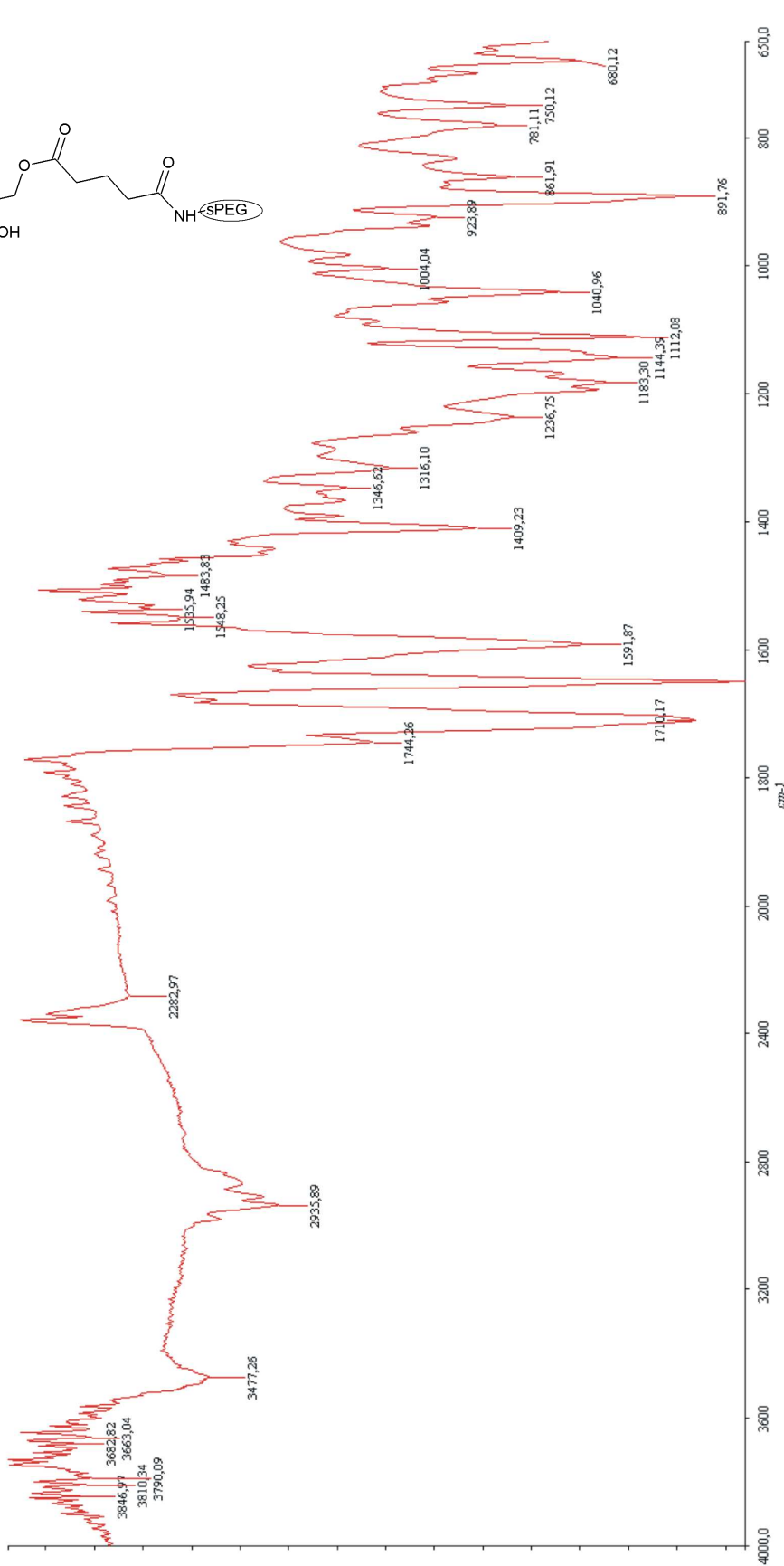
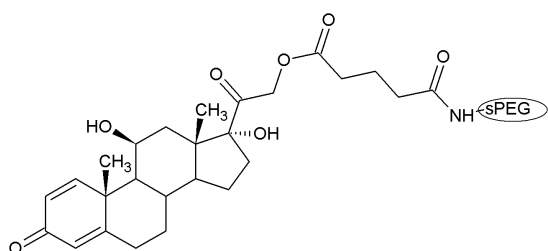
^1H NMR (500.13 MHz, DMSO- d_6):



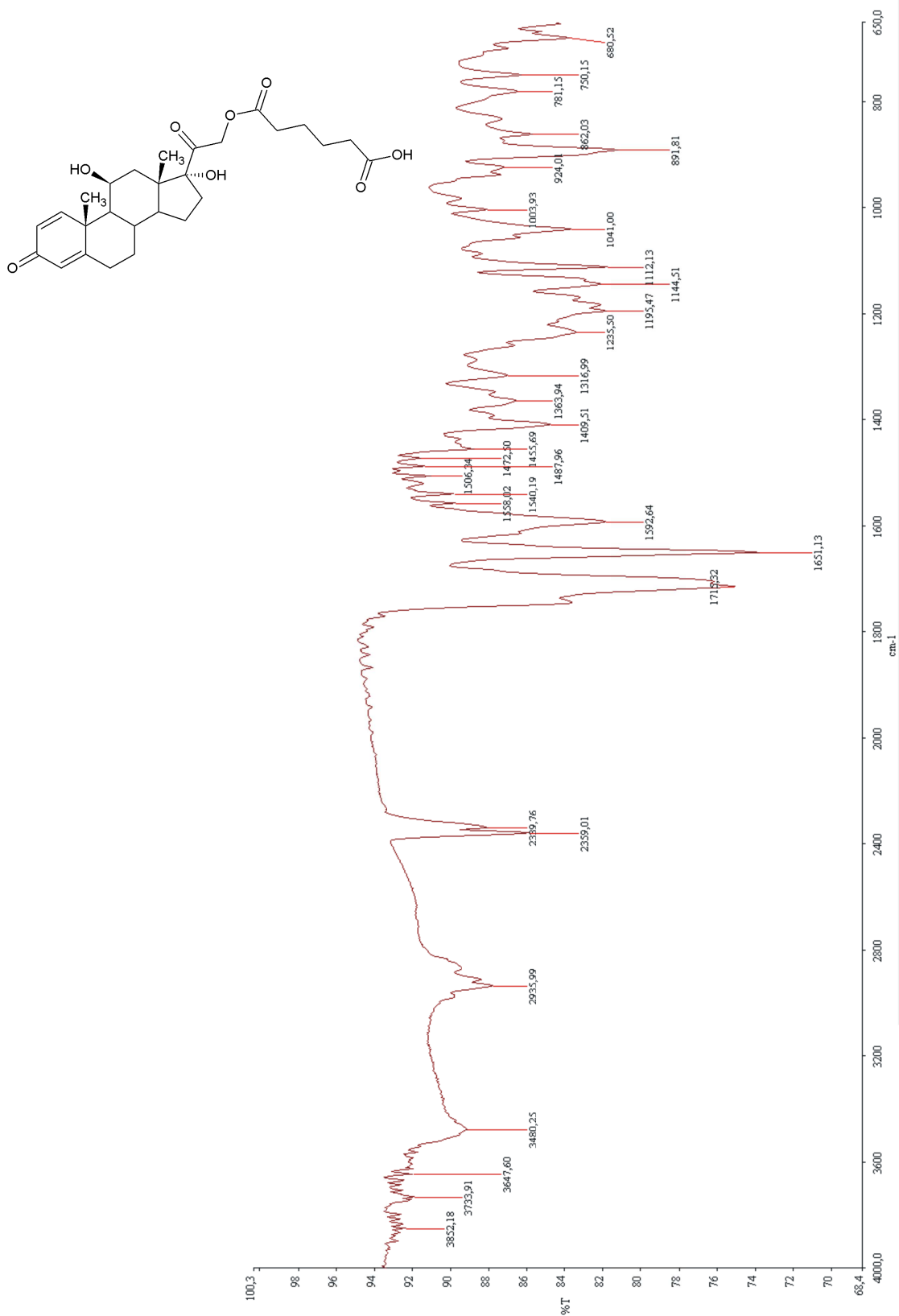
IR spectrum: Prednisolone 21-hemisuccinate(2a)



IR spectrum: Prednisolone 21-hemiglutarate (2b)



IR spectrum: Prednisolone 21-hemiadipate (2c)



IR spectrum: Prednisolone 21-hemiphthalate (2d)

