Supporting Information

Injectable Biodegradable Polymeric System for Preserving the Active form and Delayed-Release of Camptothecin Anticancer Drugs

Olcay Mert, Güneş Esendağlı, A. Lale Doğan, Ayhan S. Demir*

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Table 1 Lactone Conversion of free CPT via FL

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Table 3 CPT in gel, 0.015 % loading via FL

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Table 4 TPT in gel, 0.015 % loading via FL

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Figure 1 HPLC Chromatograms of the conversion of lactone to carboxylate of free CPT with time elapsed.

Figure 2 HPLC Chromatograms of the conversion of lactone to carboxylate of TPT with time elapsed.
Figure 3 ATR-FTIR spectra of powder CPT (1) and CPT in copolymer gel (2) in the range of 2000-4000 cm\(^{-1}\) (A) and 600-1800 cm\(^{-1}\) (B). Copolymer gel was recorded as background.
Copy of the HPLC spectra
First measurement of three independent data for free CPT in tris buffer at pH=7.4
First measurement of three independent data for free CPT in tris buffer at pH=7.4
t=20 min
First measurement of three independent data for free CPT in tris buffer at pH=7.4
t=39 min
First measurement of three independent data for free CPT in tris buffer at pH=7.4
t=58 min
First measurement of three independent data for free CPT in tris buffer at pH=7.4

$t=78$ min
First measurement of three independent data for free CPT in tris buffer at pH=7.4

$t=97$ min
First measurement of three independent data for free CPT in tris buffer at pH=7.4
t=117 min
First measurement of three independent data for free CPT in tris buffer at pH=7.4
t=136 min
First measurement of three independent data for free CPT in tris buffer at pH=7.4
t=155 min
First measurement of three independent data for free CPT in tris buffer at pH=7.4
$t=175$ min
First measurement of three independent data for free CPT in tris buffer at pH=7.4

$\pi m$

Minutes

$mV$

$57.9$

$42.1$

$194 \text{ min}$

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First measurement of three independent data for free CPT in tris buffer at pH=7.4

$t=213 \text{ min}$
First measurement of three independent data for free CPT in tris buffer at pH=7.4
$t=232$ min
First measurement of three independent data for free CPT in tris buffer at pH=7.4
$t=252$ min
First measurement of three independent data for free CPT in tris buffer at pH=7.4
t=271 min
First measurement of three independent data for free CPT in tris buffer at pH=7.4

$\Delta m$

Minutes

$\Delta m$

$0.0$ $0.5$ $1.0$ $1.5$ $2.0$ $2.5$ $3.0$ $3.5$ $4.0$ $4.5$ $5.0$ $5.5$ $6.0$ $6.5$ $7.0$ $7.5$ $8.0$

$32.0$

$68.0$
First measurement of three independent data for free CPT in tris buffer at pH=7.4
t=310 min
First measurement of three independent data for free TPT in tris buffer at pH=7.4
$t=0$ min
First measurement of three independent data for free TPT in tris buffer at pH=7.4
t=20 min
First measurement of three independent data for free TPT in tris buffer at pH=7.4
t=39 min
First measurement of three independent data for free TPT in tris buffer at pH=7.4

\( t = 58\) min
First measurement of three independent data for free TPT in tris buffer at pH=7.4

t=78 min
First measurement of three independent data for free TPT in tris buffer at pH=7.4
First measurement of three independent data for free TPT in tris buffer at pH=7.4
t=117 min
First measurement of three independent data for free TPT in tris buffer at pH=7.4 
\( t=136 \text{ min} \)
First measurement of three independent data for free TPT in tris buffer at pH=7.4
t=155 min
First measurement of three independent data for free TPT in tris buffer at pH=7.4
First measurement of three independent data for free TPT in tris buffer at pH=7.4

$t=194$ min
First measurement of three independent data for free TPT in tris buffer at pH=7.4

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First measurement of three independent data for free TPT in tris buffer at pH=7.4

$t=232\text{ min}$

![Graph showing mV vs. Minutes]

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First measurement of three independent data for free TPT in tris buffer at pH=7.4

\( t = 25.2 \text{ min} \)
First measurement of three independent data for free TPT in tris buffer at pH=7.4
t=271 min
First measurement of three independent data for free TPT in tris buffer at pH=7.4 for 290 min.
First measurement of three independent data for free TPT in tris buffer at pH=7.4
t=310 min
First measurement of three independent data for CPT in gel at 0.015% loading
t= 0 min
First measurement of three independent data for CPT in gel at 0.015% loading

$t = 45$ min
First measurement of three independent data for CPT in gel at 0.015% loading
t= 90 min
First measurement of three independent data for CPT in gel at 0.015\% loading
t = 135 min
First measurement of three independent data for CPT in gel at 0.015% loading
t= 180 min
First measurement of three independent data for CPT in gel at 0.015% loading

$t = 225$ min
First measurement of three independent data for CPT in gel at 0.015% loading

$t=270$ min
First measurement of three independent data for CPT in gel at 0.015% loading
$t = 315$ min
First measurement of three independent data for TPT in gel at 0.015% loading

$t=0$ min
First measurement of three independent data for TPT in gel at 0.015% loading
t= 45 min
First measurement of three independent data for TPT in gel at 0.015% loading

\( t = 90 \text{ min} \)
First measurement of three independent data for TPT in gel at 0.015% loading

t= 135 min
First measurement of three independent data for TPT in gel at 0.015% loading
t = 180 min
First measurement of three independent data for TPT in gel at 0.015% loading
t= 225 min
First measurement of three independent data for TPT in gel at 0.015% loading
\(t= 270 \text{ min}\)
First measurement of three independent data for TPT in gel at 0.015% loading
t= 315 min
First measurement of three independent data for CPT in gel at 1.0% loading (representative example)

$t = 120 \text{ min}$
First measurement of three independent data for CPT in gel at 10.0% loading (representative example)

$t = 120$ min
First measurement of three independent data for TPT in gel at 1.0% loading (representative example)
First measurement of three independent data for TPT in gel at 10.0% loading (representative example)
t= 120 min
Copy of the $^1$H NMR spectra
Copolymer 1
Copolymer 2