

Supplementary

Encapsulation of echinomycin in cyclodextrin inclusion complexes into liposomes: *in vitro* anti-proliferative and anti-invasive activity in glioblastoma

Walhan Alshaer^{1,*,#}, Manar Zraikat^{2,#}, Amer Amer³, Hamdi Nsairat⁴, Zainab Lafi³, Dana A. Alqudah¹, Enas Alqadi², Tasneem Alsheleh², Fadwa Odeh⁴, Arwa Alkaraki^{1,2}, Malek Zihlif², Yasser Bustanji^{3,5}, Abdalla Awidi^{1,6,*}

¹Cell Therapy Center, The University of Jordan, Amman, Jordan.

²Department of Pharmacology, Faculty of Medicine, The University of Jordan, Amman, Jordan.

³Department of Clinical Pharmacy, Faculty of Pharmacy, The University of Jordan, Amman, Jordan.

⁴Department of Chemistry, Faculty of Science, The University of Jordan, Amman, Jordan.

⁵HMCSR, The University of Jordan, Amman, Jordan.

⁶Department of Hematology, Jordan University Hospital, The University of Jordan, Amman, Jordan.

These authors contributed equally to this work.

*Corresponding Authors:

Dr. Walhan Alshaer

Cell Therapy Center
The University of Jordan
PO Box: 5825, Amman, Jordan.
Office: (+962) 6-5355000 Ext: 23960
Mobile: +(962) 790823678
E-mail: walhan.alshaer@ju.edu.jo

Professor Abdalla Awidi

Cell Therapy Center
The University of Jordan
PO Box: 5825, Amman, Jordan.
Office: (+962) 6-5355000 Ext: 23960
Mobile: (+962) 790823678
E-mail: abdalla.awidi@gmail.com

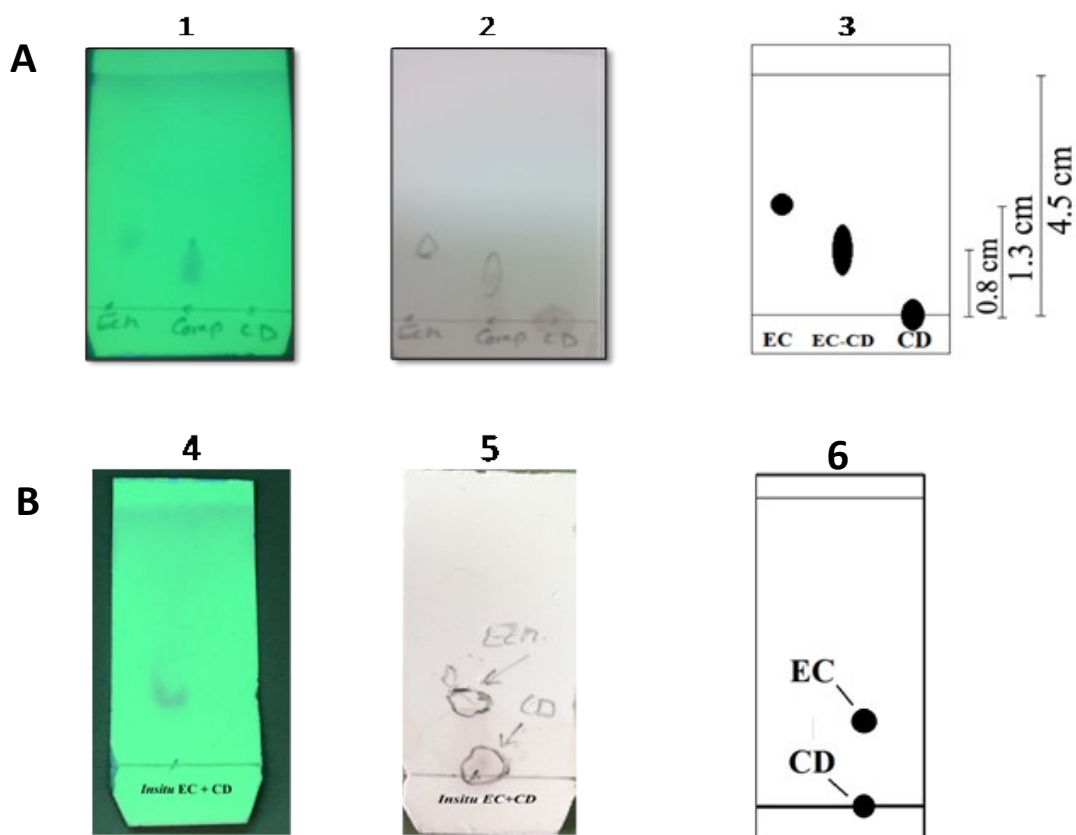


Fig. S1: Thin Layer Chromatography (TLC) of Echinomycin, γ CD, Echinomycin-in- γ CD and "in situ" Echinomycin- γ CD mixture. (1) Spots under UV light. (2) Spots after heating silica plate. (3) Retention distance of Echinomycin, γ CD and Echinomycin- γ CD. (4) "in situ" Echinomycin-in- γ CD mixture under UV light. (5) "in situ" Echinomycin-in- γ CD mixture after heating silica plate. (6) "in situ" retention of echinomycin and γ CD.

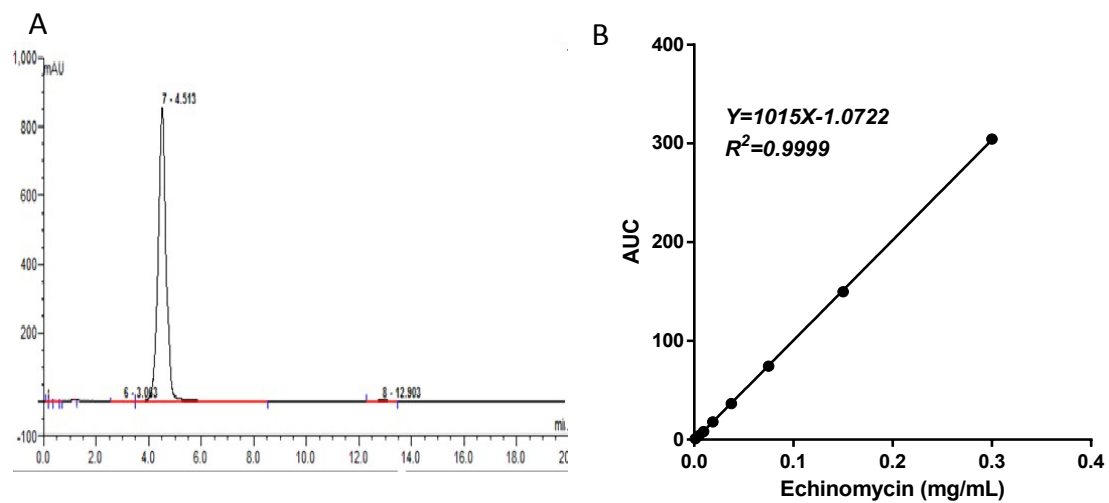


Fig. S2: (A) Representative HPLC chromatography peak of echinomyacin samples. (B) Calibration curve of echinomyacin standard samples.