

Supplementary Materials: Top-Down Synthesis of a Lamivudine-Zidovudine Nano Co-Crystal

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Supplementary Materials

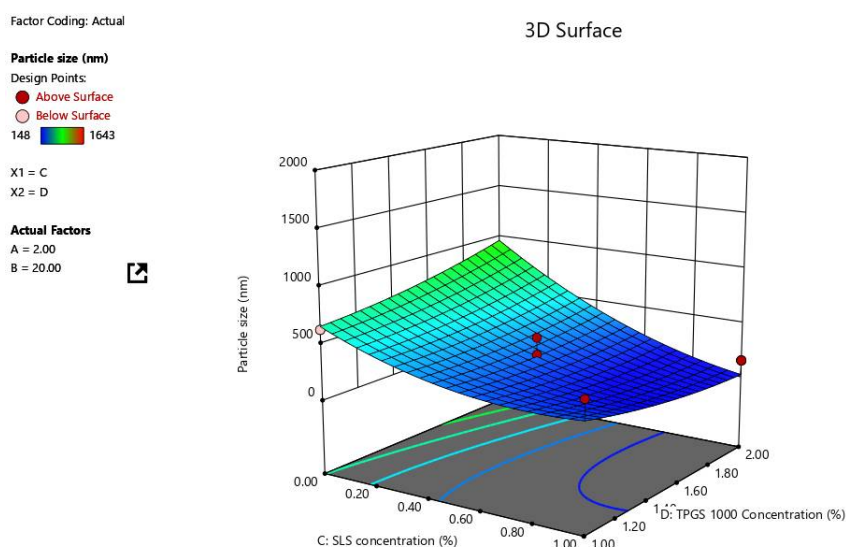


Figure S1. 3D response surface plot depicting the impact of SLS and TPGS concentration on PS.

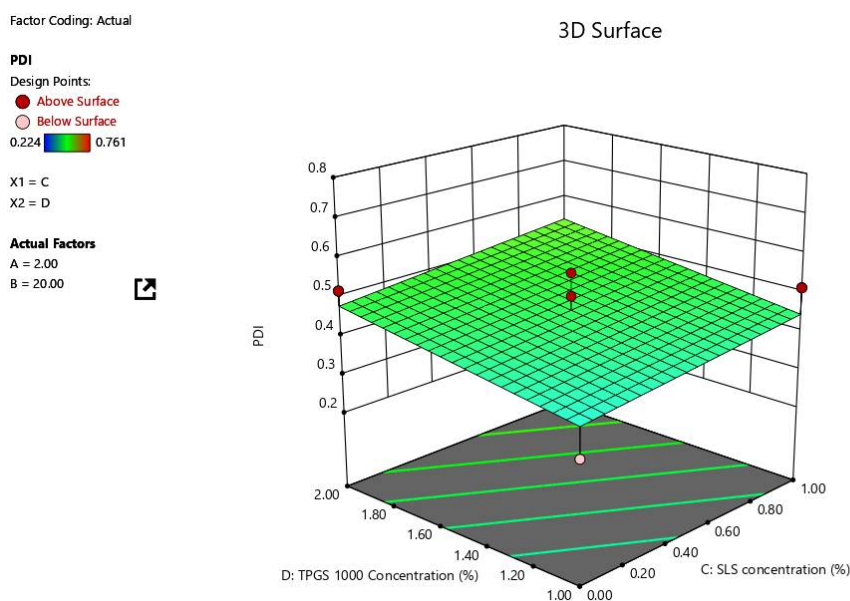


Figure S2. 3D response surface plot depicting the impact of SLS and TPGS concentration on PDI.

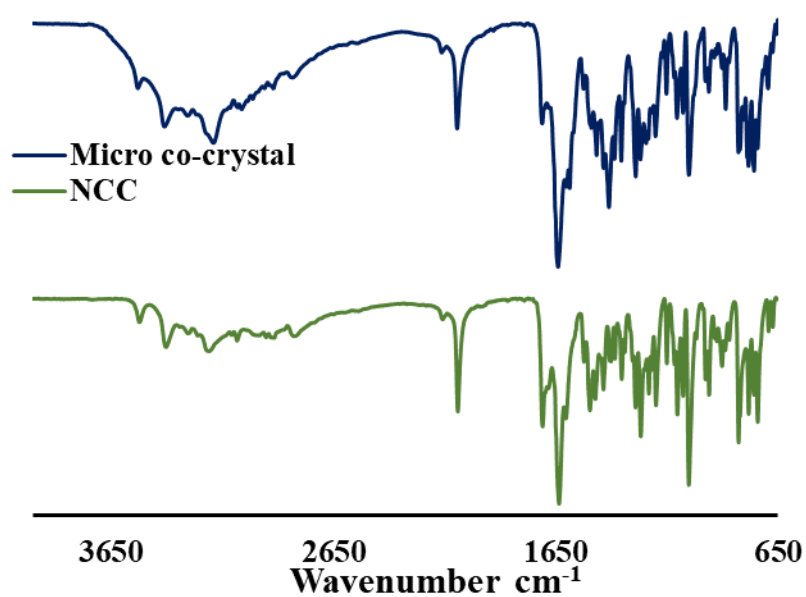


Figure S3. FTIR Spectra of the micro co-crystal (blue) [51] and OPT-NCC (green).

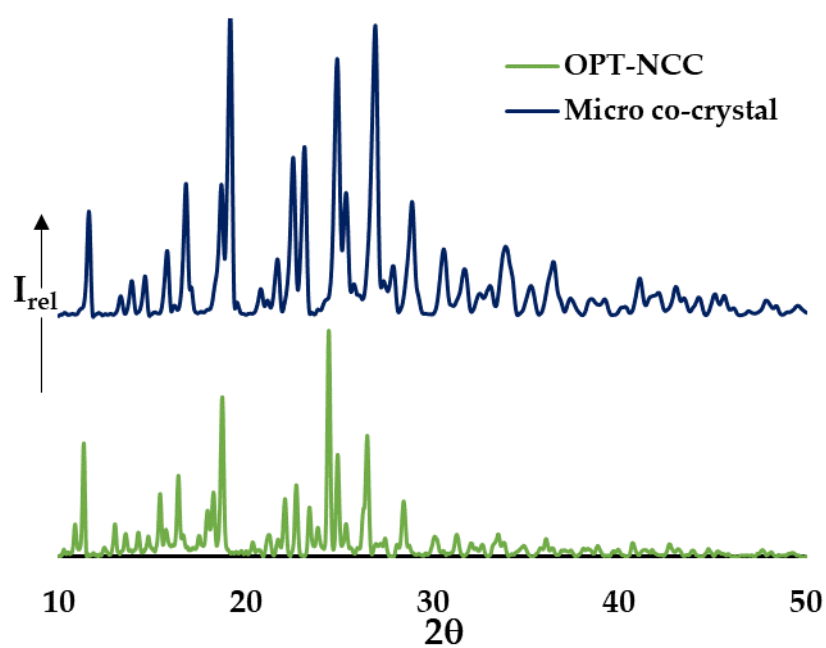


Figure S4. PXRD diffractogram for the micro co-crystal (blue) [51] and the OPT-NCC (green).

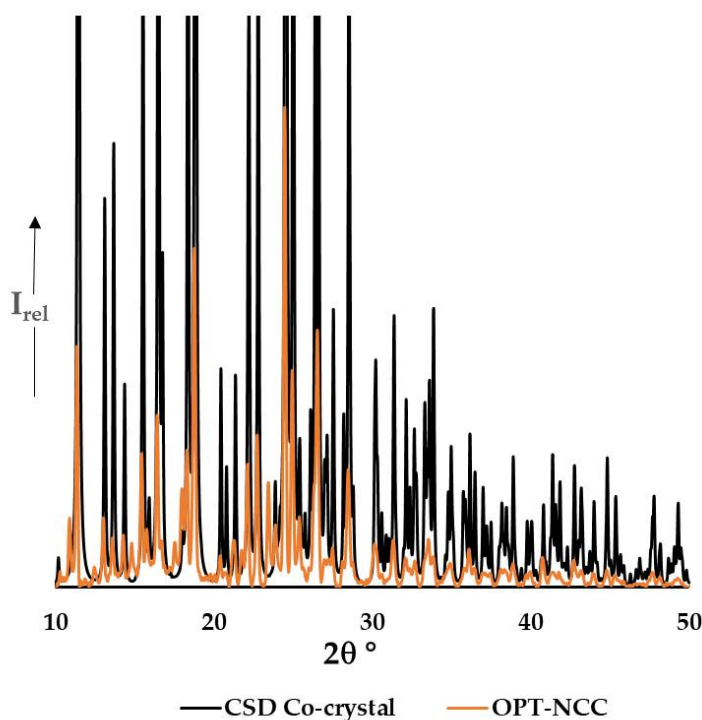


Figure S5. PXRD diffractograms of OPT-NCC (orange) and nano co-crystal (black) (Diffractogram obtained from CSD [73]). REFCODE: WOMHEM.

Table S1. In vitro cytotoxicity results.

| Compound | Cell Viability % |
|------------------|------------------|
| OPT-NCC | 74.7 ± 2.4 |
| Physical Mixture | 52.6 ± 5.1 |
| AZT | 49.6 ± 6.2 |
| 3TC | 62.3 ± 4.7 |

Supplementary Materials: Figure S1: 3D response surface plot depicting the impact of SLS and TPGS concentrations on PS. Figure S2: 3D response surface plot depicting the impact of SLS and TPGS concentrations on PDI. Figure S3: FTIR Spectra of the micro co-crystal (blue) [51] and OPT-NCC (green). Figure S4: PXRD diffractogram for the micro co-crystal (blue) [51] and the OPT-NCC (green). Figure S5: PXRD diffractograms of OPT-NCC (orange) and nano co-crystal (black) (Diffractogram obtained from CSD [73]). REFCODE: WOMHEM. Table S1: In vitro cytotoxicity results.

Author Contributions: BAW performed the experiments, analyzed the data, contributed to the conceptualization of research and wrote the manuscript. RBW supervised and contributed to the conceptualisation of the research, writing and editing of the manuscript. VJS contributed to the conceptualisation, supervision, bibliography research and proofreading of the manuscript.

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Conflicts of Interest: The authors declare no conflict of interest.



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