

Accepted Manuscript

Physicochemical properties of β -cyclodextrin solutions and precipitates prepared from injectable vehicles

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PII: S1818-0876(17)30946-7
DOI: [10.1016/j.ajps.2018.02.002](https://doi.org/10.1016/j.ajps.2018.02.002)
Reference: AJPS 498



To appear in: *Asian Journal of Pharmaceutical Sciences*

Received date: 28 November 2017

Accepted date: 26 February 2018

Please cite this article as: Sai Myo Thurein , Nutdanai Lertsuphotvanit , Thawatchai Phaeachamud , Physicochemical properties of β -cyclodextrin solutions and precipitates prepared from injectable vehicles, *Asian Journal of Pharmaceutical Sciences* (2018), doi: [10.1016/j.ajps.2018.02.002](https://doi.org/10.1016/j.ajps.2018.02.002)

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1 Highlight

2 High concentrated beta-cyclodextrin (β -CyD) could be prepared in injectable solvents with
3 low viscosity and Newtonian flow

4 β -CyD in 2-pyrrolidone (PYR) exhibited the highest water resistance and its matrix formation
5 were lower than that in dimethyl sulfoxide (DMSO) and N-methyl pyrrolidone (NMP)

6 β -CyD precipitates from these solvents showed the complexation between β -CyD and solvent
7 from DSC, TGA, x-ray diffraction and FT-IR data

8 These characteristic properties will be useful for using β -CyD solutions as matrix former in
9 the *in situ* forming gel for periodontitis treatment

10

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