Electronic Supplementary Material (ESI) for RSC Advances.

Supporting information

Curcumin- *p*-sulfonatocalix[4]resorcinarene (*p*-SC[4]R) interaction: Thermo-Physico chemistry, Stability and biological evaluation

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1. HPLC graph of Figure S_1

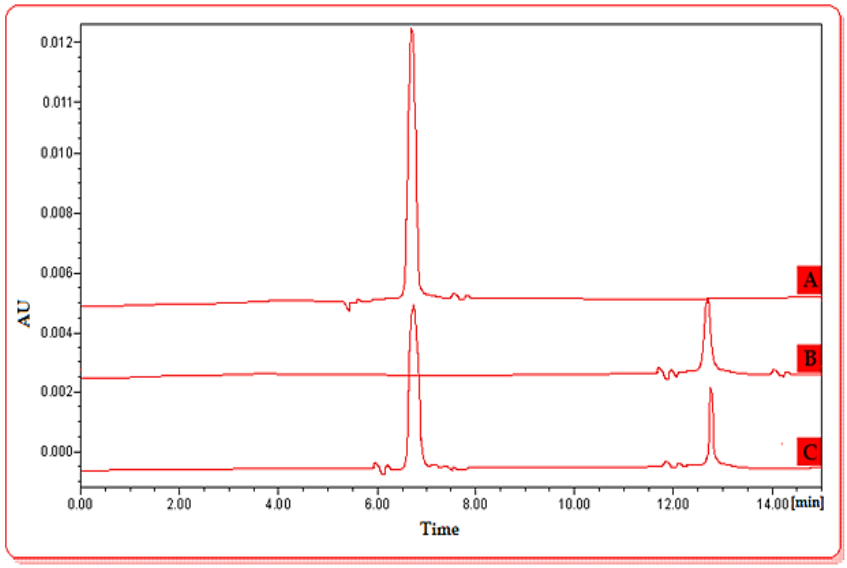

Fig. S_1 HPLC chromatogram of (A) Pure curcumin, (B) *p*-SC[4]R and (C) Inclusion complex.

2. *In vitro* dissolution study of Figure S_2

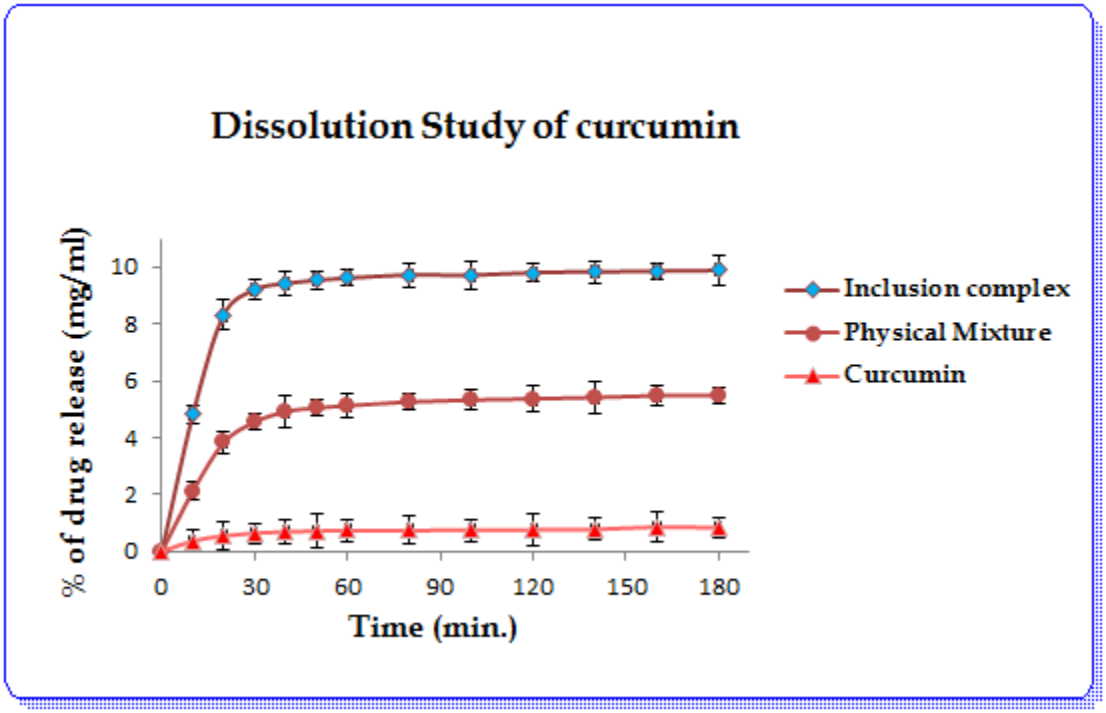

Fig. S_2 *In vitro* dissolution profiles of pure curcumin, physical mixture and curcumin / *p*-SC[4]R inclusion complex.

3. Phase solubility study of Figure S_3

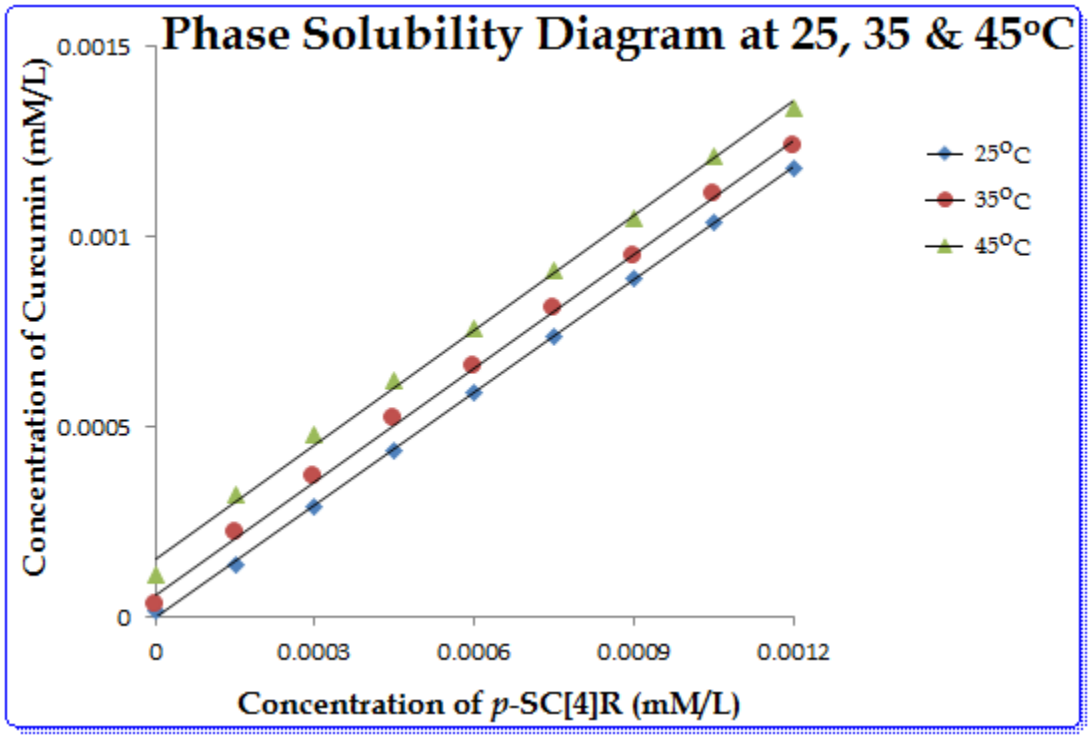

Fig. S_3 The phase solubility diagrams of curcumin with *p*-SC[4]R at 25, 35 and 45 ^{o}C.

4. Stability study of Figure S_4 & S_5

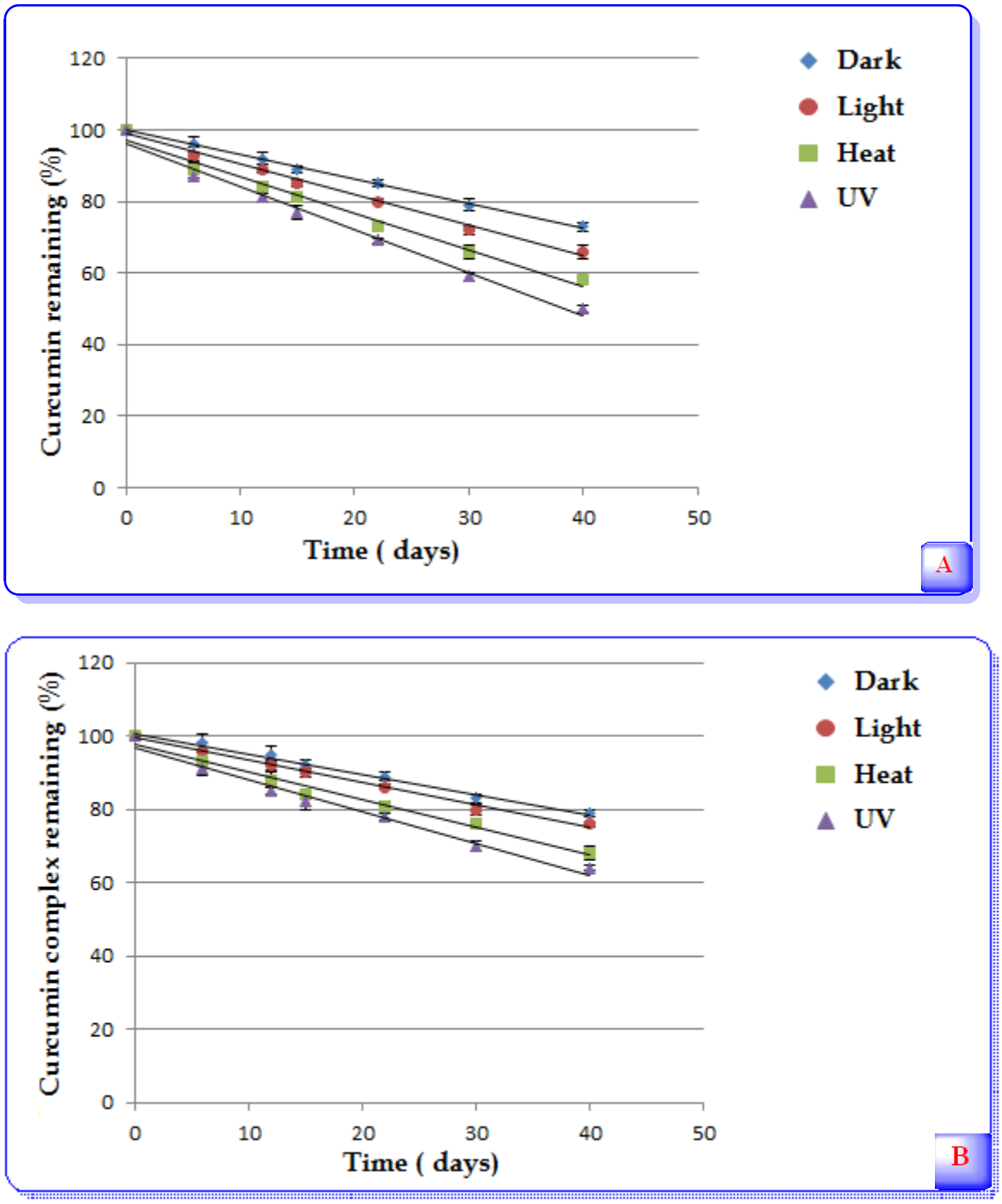

Fig. S_4 Degradation pattern of substances during storage by dark, light, heat and UV radiation; (A) curcumin and (B) curcumin with *p*-SC[4]R inclusion complex.

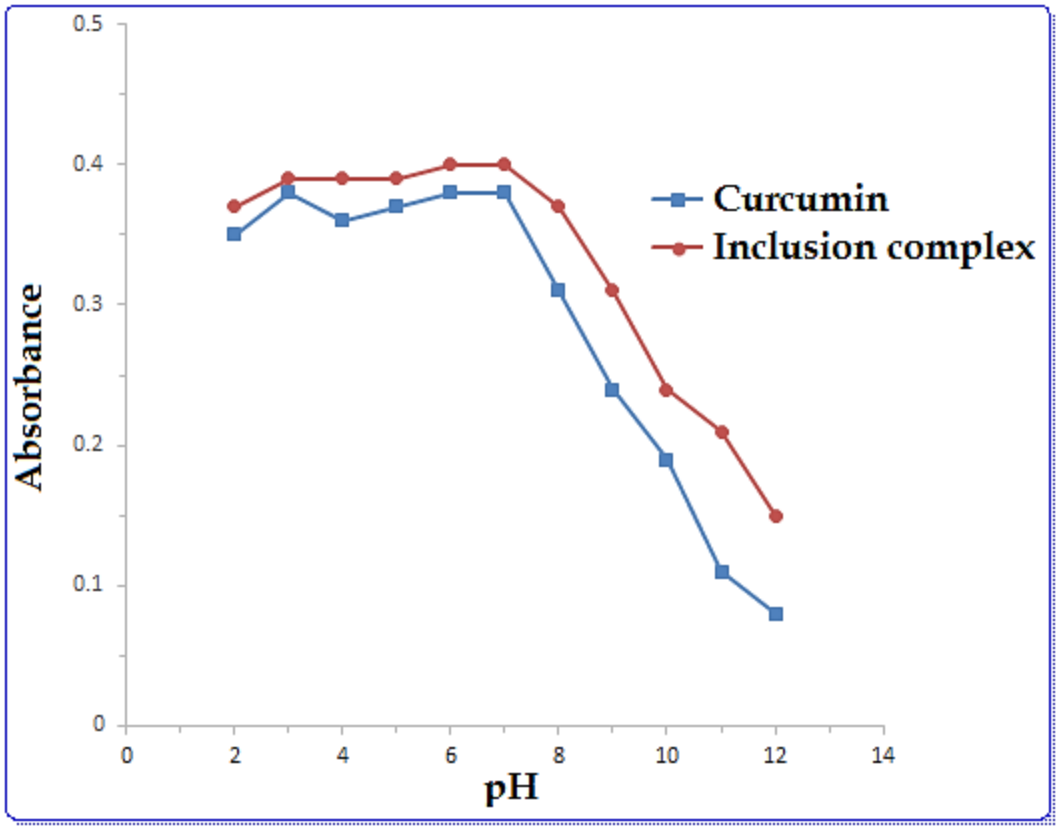

Fig. S_5 The stability of curcumin and curcumin / *p*-SC[4]R complex in the different pH.