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Application of mudulated scanning calorimetry: Screening plasticizers for dry powder coating process in preparing colonic coated tablet containing berberine Nguyen Van Lam, Nguyen Hong Thuy, Nguyen Thach Tung, Pham Thi Minh Hue *Hanoi University of Pharmacy*

Summary: Berberin tabletsintended for colon drug delivery was prepared by dry powder coating process using pectin based membrane to control the drug release rate. Modulated differential scan calorimetry (MDSC) was used to screen plasticizers for pectin via determining glass transition temperature (T_g) of polymer – plasticizer mixtures. Glycerin and sorbitol were selected for plasticizers. Berberin tablets coated with pectin – HPMC K4M and glycerin exhibited a good drug release profile for drug delivery to colon. It isindicated that plasticizer must be corectly chosen for dry coating experiments.