CHAPTER IV

CONCLUSION

1. The analytical method used in this study could detect all three compounds of curcuminoids, curcumin, demethoxycurcumin and bisdemethoxycurcumin at the detector wavelength of 420 nm. Mefenamic acid is the appropriate IS for this study since it can be quantificated at 282 nm that is also the UV detector wavelength of curcuminoids and their metabolites.

2. This proposed method was validated to ensure the linearity, extraction efficiency, accuracy, precision, sensitivity, specificity and stability of the method prior to the study. During study, the quality control samples were used to confirm the feasibility of the method.

3. The content of curcumin in curcuminoids tablets was determined to be 88.20% of the tumeric extracted powder.

4. According to the pharmacokinetic parameters of curcumin, it is confirmed that curcumin could be rapidly eliminated after curcuminoids administration. Even though, accumulations of curcumin is not the problem but the presence of metabolite peak would be co-considered for explanation of curcumin pharmacokinetics.