



## Influence of *Croton tiglium* Seeds on the Pharmacokinetics of Anthraquinones in *Radix et Rhizoma Rhei*

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**SUMMARY.** In this study, the influence of *Croton tiglium* seeds on the pharmacokinetic of rhein in *Radix et Rhizoma Rhei* was performed to elucidate the compatibility relationship of these two herbs. The pharmacokinetics of rhein was studied following oral administration of pure rhein, *Radix et Rhizoma Rhei* methanol extract (RE) and *Radix et Rhizoma Rhei* and seeds of *Croton tiglium* methanol extract (RCE), with approximately the same dose of 10mg/kg. It was found that comparing with that in monomer, both AUC and  $C_{max}$  of rhein in RE and different proportion of RCE were significantly different. The results indicated that comparing with the monomer, the concentration of rhein in the plasma was increased in the group of RE whereas the tendency of AUC and  $C_{max}$  of rhein in RCE presented quite discrepancy depending on the different proportion of RCE.

**KEY WORDS:** *Croton tiglium* seeds, *Radix et Rhizoma Rhei*, Rhein, Pharmacokinetics.

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