[abstract] PHYTOCHEMICAL STUDY FROM PIPER RETROFRACTUM VAHL. FRUCTUS FOR STANDARDIZING TRADITIONAL MEDICINE EXTRACT

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\textit{Piper retrofractum} Vahl. fructus is empirically used as a traditional medicine for diarrhea, cough, anti-oxidant, oxytocic for post labor and carminative. To ensure quality through identification and standardization of its extract, fingerprint/phytochemical study is needed. In this research, the phytochemical study was carried out by TLC (Thin Layer Chromatography) scanner. From the results, with hexane:ethyl acetate (70:30 v/v), ethanol, ethyl acetate, chloroform and n-hexane extracts showed the same specific retention factor about 0.20; 0.25; 0.29; 0.37; 0.69 (254 nm) and 0.20; 0.32; 0.36; 0.54; 0.68 (366 nm). With toluene:ethyl acetate (80:20 v/v), all extracts showed specific retention factor about 0.25; 0.35; 0.48; 0.55; 0.61; 0.84 (254 nm) and 0.33; 0.44; 0.48; 0.55; 0.84 (366 nm). In addition, with toluene:chloroform:ethyl acetate (60:30:10 v/v), all extracts showed specific retention factor about 0.32; 0.36; 0.42; 0.52; 0.64; 0.77 (254 nm) and 0.32; 0.36; 0.51; 0.76 (366 nm). In conclusion, the specific retention time for all extracts with different eluent can be used as fingerprint for standardization of traditional medicine extract containing \textit{Piper retrofractum} Vahl. Fructus.

Key words: \textit{Piper retrofractum} Vahl.fructus, fingerprint, TLC scanner, retention factor.

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