

Penetapan parameter spesifik dan non spesifik simplisia dan ekstrak etanol 70% umbi gadung (*dioscorea hispida*) dan daun prasman (*ayapana triplinervis*) = Determination of specific and non specific parameter of simplicia and ethanolic 70% extract of gadung tubers (*dioscorea hispida*) and prasman leaves (*ayapana triplinervis*)

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Abstrak

Dioscorea hispida dan *Ayapana triplinervis* adalah tanaman yang dapat digunakan dalam berbagai jenis pengobatan tradisional. *Dioscorea hispida* dan *Ayapana triplinervis* dapat dijadikan sebagai obat tradisional yang harus terjamin mutu, keamanan, dan manfaatnya, oleh karena itu dibutuhkan adanya standardisasi. Penelitian ini bertujuan untuk memperoleh beberapa parameter spesifik dan non spesifik simplisia dan ekstrak etanol 70 umbi *Dioscorea hispida* dan daun *Ayapana triplinervis* yang berasal dari tiga daerah yang berbeda.

Hasil pengujian terhadap parameter spesifik simplisia *Dioscorea hispida* yaitu, kadar sari larut air 11,25; 16,20; kadar sari larut etanol 6,42; 9,39; pola kromatogram diperoleh dengan menggunakan fase gerak toluen-etil asetat-kloroform 5:1:4 ; kadar fenol total 2,15 ndash;2,50 mgGAE/g simplisia. Parameter non spesifik simplisia *Dioscorea hispida* yaitu, susut pengeringan 10,53; 12,40; kadar abu total 5,81-5,94; kadar abu tidak larut asam 0,20; 0,22.

Parameter spesifik ekstrak *Dioscorea hispida* yaitu kadar fenol total 10,30; 11,72 mgGAE/g ekstrak.

Parameter non spesifik ekstrak umbi *Dioscorea hispida* yaitu, kadar air 10,27; 10,47; kadar abu total 2,84-2,93; kadar abu tidak larut asam 0,14; 0,19.

Pengujian terhadap parameter spesifik simplisia *Ayapana triplinervis* yaitu, kadar sari larut air 18,69; 29,30; kadar sari larut etanol 7,73; 11,78; pola kromatogram diperoleh dengan menggunakan fase gerak etil asetat-asam format-air-asam asetat glasial 100:15:17:0,6; kadar flavonoid total 3,31; 4,10 mgRE/g simplisia.

Parameter non spesifik simplisia *Ayapana triplinervis* yaitu, susut pengeringan 13,61; 14,55; kadar abu total 11,54; 11,83; kadar abu tidak larut asam 1,90; 2,66. Parameter spesifik ekstrak *Ayapana triplinervis* yaitu kadar flavonoid total 14,94; 22,41 mgRE/g ekstrak. Parameter non spesifik ekstrak *Ayapana triplinervis* yaitu, kadar air 11,07; 12,66; kadar abu total 10,55; 10,89; kadar abu tidak larut asam 0,25; 0,32.

.....*Dioscorea hispida* and *Ayapana triplinervis* are plants that are usually used for traditional treatments.

Dioscorea hispida and *Ayapana triplinervis* can be used as traditional medicine that must be guaranteed on quality, safety, and benefit. Therefore, standardization is needed. This research was aimed to obtain some specific and non specific parameter of simplicia and ethanolic 70 extract of *Dioscorea hispida* tubers and *Ayapana triplinervis* leaves from three different regions.

The results showed that the specific parameters of *Dioscorea hispida* simplicia the total water soluble extract was 11.25; 16.20 the total ethanol soluble extract was 6.42 9.39 the chromatogram profile was obtained by using thin layer chromatography in toluene ethyl acetate chloroform 5 1 4 mobile phase, the total phenolic content was 2.15; 2.50 expressed in mgGAE g simplicia. Non specific parameters of *Dioscorea hispida* simplicia the total loss on drying was 10.53; 12.40 the total ash content was 5.81; 5.94 the total acid insoluble ash content was 0.20; 0.22 . Specific parameters of *Dioscorea hispida* extract the total phenolic

content was 10.30; 11.72 expressed in mgGAE g extract. Non specific parameters of *Dioscorea hispida* extract the total water content was 10.27; 0.47 the total ash content was 2.84; 2.93 the total acid insoluble ash content was 0.14; 0.19.

The results showed that the specific parameters of *Ayapanatriplinervis simplicia* the total water soluble extract was 18.69; 29.30 the total ethanol soluble extract was 7.73; 11.78 the chromatogram profile was obtained by using thin layer chromatography in ethyl acetate formic acid water acetic acid 100:15:17:0.6 mobile phase the total flavonoid content was 3.31; 4.10 expressed in mgRE g simplicia. Non specific parameter of *Ayapana triplinervis simplicia* the total loss on drying was 13.61; 14.55 the total ash content was 11.54; 11.83 the total acid insoluble ash content was 1.90; 2.66 . Specific parameters of *Ayapana triplinervis* extract, the total flavonoid content was 14.94; 22.41 expressed in mgRE g extract. Non specific parameters of *Ayapana triplinervis* extract the total water content was 11.07 12.66 the total ash content was 10.55 10.89 the total acid insoluble ash content was 0.25 0.32.