

## ABSTRAK

**Astri Devi Br Pakpahan, NIM 4193210017 (2023). Standarisasi Ekstrak Etanol Getah Kemenyan (*Styrax benzoin*) Menggunakan Metode Sokletasi.**

Penelitian ini bertujuan untuk mengetahui standarisasi terhadap ekstrak etanol getah kemenyan (*Styrax benzoin*) dengan menggunakan metode sokletasi. Identifikasi komponen metabolit sekunder menggunakan skrining fitokimia. Metode yang digunakan pada penelitian ini yakni berdasarkan standarisasi parameter spesifik dan parameter non spesifik. Hasil penelitian skrining fitokimia menunjukkan adanya metabolit sekunder berupa alkaloid, flavonoid, tanin, saponin, dan terpenoid pada ekstrak etanol getah kemenyan. Hasil standarisasi untuk parameter spesifik menunjukkan *Styrax benzoine Extractum* berwarna coklat kehitaman yang memiliki bau khas kemenyan, kandungan senyawa larut dalam etanol (85.6%), kandungan kimia (*Benzoic acid*; *Vanillin*; *2-Propenoic acid, 3-phenyl-* (asam sinamat); *2-Propanone, 1-(4-hydroxy-3-methoxyphenyl)-*; *Phenol, 2-methoxy-4-(2-propenyl)-*; *Benzoic acid, phenylmethyl ester*; *2-Propenoic acid, 3-phenyl-,phenylmethyl ester, (E)*; *Cinnamyl cinnamate*; *3-(4-Hydroxy-3-methoxyphenyl)-2-oxopropyl benzoate*; dan *Mandelic acid, 3,4-dimethoxy-, methyl ester*), pH (4.8), dan bilangan asam (259.53 mg KOH/g). Hasil untuk parameter non spesifik menunjukkan bobot jenis (1.128g/mL) dan viskositas (67.245 cP).

**Kata kunci:** Getah kemenyan (*Styrax benzoin*), standarisasi spesifik, standarisasi non spesifik



## ABSTRACT

***Astri Devi Br Pakpahan, NIM 4193210017 (2023). Standardization of Ethanol Extract of Frankincense Gum (Styrax benzoin) Using Soxhletation Method.***

*This study aims to determine the standardization of ethanol extract of frankincense gum (Styrax benzoin) using the soxhletation method. Identification of secondary metabolite components using phytochemical screening. The method used in this research is based on standardization of specific parameters and non-specific parameters. The results of phytochemical screening showed the presence of secondary metabolites in the form of alkaloids, flavonoids, tannins, saponins, and terpenoids in ethanol extract of frankincense gum. Standardization results for specific parameters show Styrax benzoin Extractum is blackish brown in color which has a distinctive smell of frankincense, the content of compounds soluble in ethanol (85.6%), chemical content (Benzoic acid; Vanillin; 2-Propenoic acid, 3-phenyl- (cinnamic acid); 2-Propanone, 1-(4-hydroxy-3-methoxyphenyl)-; Phenol, 2-methoxy-4-(2-propenyl)-; Benzoic acid, phenylmethyl ester; 2-Propenoic acid, 3-phenyl-, phenylmethyl ester, (E); Cinnamyl cinnamate; 3-(4-Hydroxy-3-methoxyphenyl)-2-oxopropyl benzoate; and Mandelic acid, 3,4-dimethoxy-, methyl ester), pH (4.8), and acid number (259.53 mg KOH/g). Results for non-specific parameters showed specific gravity (1.128g/mL) and viscosity (67.245 cP).*

**Keywords:** *Frankincense gum (Styrax benzoin), specific standardization, non-specific standardization*

