

# Phytochemical screening and total phenolic content of *Mansonia gagei* leaves

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## Abstract

This study aimed to investigate the preliminary chemical properties and phenol content. Phytochemical screening and total phenol content of *Mansonia gagei* leaves the preliminary study by phytochemical screening found 9 groups of phytochemicals is alkaloids, flavonoids, coumarins, saponins, tannins, phlobatannin, terpenoids steroids, cardiac glycosides, not found 1 group of substances, namely anthraquinone, The extracts were analyzed for total phenolic content by the Folin - ciocalteu method by comparing curves. The gallic acid standard ( $y=0.0115x$ ,  $R^2=0.9993$ ) from the gallic acid standard curve ( $y=0.0115x$ ) could be used to calculate the total phenolic content of the ethanol class crude extract. The results showed that the rough extract of sandalwood leaves at a concentration of 1000 mg/L yielded an average total phenolic content of 0.48347 mgGAE.g<sup>-1</sup>. The above results concluded that *Mansonia gagei* leaves can be used as a botanical source. In addition, the research results can be used as the scientific basis for further benefits in the pharmaceutical, cosmetic, or food industries. To add value to the *Mansonia gagei* leaves and disseminate the benefits of medicinal plants found in Thailand..

**Keywords:** *Mansonia gagei*, phytochemical, phytochemical screening, phenolic, Maceration