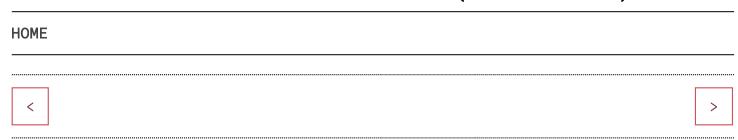
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>

# Phytochemical Screening, Total Antioxidant Capacity and Toxicity Test of White Jasmine Flower Extract (*Jasminum sambac*)

#### **Authors**

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#### **Keywords**

Jasminum sambac; Phytochemical Screening; DPPH; Brine Shrimp Lethality Test

#### **Abstract**

Oxidative stress is a state of imbalance of antioxidants and reactive oxygen species levels in the body. Prolonged oxidative stress can cause degenerative diseases, malignancies, or premature aging. This situation can be prevented by antioxidants, compounds that can inhibit the oxidation process. One of the

Indonesian plants, namely white jasmine flower, is known to contain a lot of secondary metabolites and have the potential to be antioxidants. Therefore, this research was conducted to determine the content of secondary metabolites, antioxidant potential, and toxicity of white jasmine flowers. Jasmine flower extract was made by maceration method using methanol solvent.

Phytochemical screening was carried out in a semi-qualitative manner based on Harborne's book. The total antioxidant capacity test was carried out by the Blois method using DPPH (1,1-diphenyl-2-picrylhydrazyl) solution. Toxicity test was carried out using the BSLT (Brine Shrimp Lethality Test) method. In the phytochemical screening, jasmine flower extract was found alkaloids, flavonoids, cardio glycosides, glycosides, saponins, coumarins, phenolics, quinones, betacyanins, steroids, terpenoids, and tannins. It was found that jasmine flower extract had a total antioxidant capacity (IC $_{50}$  = 460.24 µg/mL) which was categorized as weak antioxidant (200 ppm  $\leq$  IC $_{50} \leq$  500 ppm), and the level of toxicity (LC $_{50}$  = 111.43 µg/mL) which has cytotoxic properties (LC $_{50} \leq$  1000 ppm) and belongs to the moderate toxic category (100 ppm  $\leq$  LC $_{50} \leq$  1000 ppm). In summary, jasmine flower extract has the potential as an antioxidant and has the potential to be an antimitotic agent.

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