

**TOXICITY AND ANTIBACTERIAL ACTIVITY SCREENINGS OF
EXTRACT OF MARINE SPONGE *Theonella* sp. COLLECTED FROM
BARRANG LOMPO ISLAND INDONESIA**

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ABSTRACT

Toxicity and antibacterial activity screenings of the extract of marine sponge *Theonella* sp. collected from Barrang Lompo Island Indonesia have been conducted. The sponge sample was extracted using dichloromethane/methanol (2:1). The dichloromethane layer was evaporated and partitioned by ethyl acetate/water (1:1) and was subjected to column chromatography. Brine Shrimp Lethality Test (BSLT) toxicity and antibacterial agar diffusion assays were the biological screening methods of the ethyl acetate crude extract and column chromatography fractions.

The BSLT showed high toxicities against *Artemia salina* of that the crude ethyl acetate extract and fraction 7 with LC_{50} values of 0.160 and 2.463 $\mu\text{g/ml}$, respectively. The column chromatography fractions of the ethyl acetate extract showed weak antibacterial activities with maximum of zone of inhibition diameter of 12 mm. The LC-ESI/MS analysis of fraction 7 indicated that there are four known compounds: rifamycin S, reticulatine B, theonellapectolide Ib and swinholidide J.

Key words: *Theonella*, toxicity, antibacterial.