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Antibacterial, anti-mycobacterium and cytotoxic activities of Tin fruit (*Ficus carica*) compounds in Java

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Tin Fruit (*Ficus carica*) is one of famous fruit in Indonesia. The antibacterial and cytotoxicity test of pure compounds of *Ficus carica* were done, which was collected from Sidoarjo, East Java, Indonesia. Isolation and purification of the crude extracts and the pure compounds were carried out using several chromatographic techniques. The structures of the isolated compounds were elucidated by spectroscopic methods such as UV, IR, 1D (¹H, ¹³C, DEPT) and 2D (COSY, HMQC and HMBC), NMR and MS. Four compounds were identified such as β-sitosterol, 6-(2-methoxy-Z-vinyl)-7-methyl-pyrano-coumarin and 9,19-cycloartane triterpenoid were isolated from this plant. These compounds were screened for their antibacterial and cytotoxic activities. Significant antibacterial activities were shown by compounds against *Staphylococcus aureus* and *Bacillus subtilis* and also for *Mycobacterium tuberculosis* and *Mycobacterium marinum* in high concentration. Meanwhile, the screening for cytotoxicity using SRB assay on MCF-7, SKOV3, HT-29 and MDA-MB-231 cell lines for these compounds revealed the percentage of cells survival at doses 15 µg/ml were higher than 50%.

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