



ID der Kurzfassung : 339

Non Toxic Antibacterial Activities of Depsidones from Timorese Endophytic Fungus *Corynespora cassicola* against Methicilin and Multidrug-Resistant Bacteria

Inhalt

Chemical investigation of the screened active extract from fungal endophyte *Corynespora cassicola* associated with medicinal plants *Annona squamosa* collected in Timor Island (Indonesia) led to the isolation of four depsidone compounds corynesidone A (1), B (2), C (3) and D (4). The individual compound was tested for their antibacterial property against multi drug resistant bacteria and for their cytotoxic activity against murine lymphoma (L5178Y) cell line. While compound 1-4 were inactive in the cytotoxic assay, they displayed antibacterial potency toward multi drug resistant clinical isolates *Staphylococcus aureus* 25697 (MRSA) with MIC value of 16-64 µg/mL. Moreover, compound 3 was found to be active against *Streptococcus pneumoniae* with MIC value of 32 µg/mL.

Keywords

Annona squamosa, Antibacterial, Cytotoxic, corynesidone, *Corynespora cassicola*, Endophytic fungus

Registration ID

228

Professional Status of the Speaker

Professor

Junior Scientist Status

No, I am not a Junior Scientist.

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Track Klassifizierung: AMR

Typ des Beitrags: Poster presentation

Eingereicht von **REGLING, Inga** auf **Donnerstag, 11. September 2025**