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Enrichment of antibacterial compound from the stem bark of *Stereospermum fimbriatum* using supercritical carbon dioxide extraction

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Views count [View all metrics >](#)[Full text options](#) [Export](#) [Abstract](#)[Author keywords](#)[Reaxys Chemistry database information](#)[Indexed keywords](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Cited by 1 document**Gc-ms analysis and antimicrobial activity of *stereospermum fimbriatum* against selected skin-associated pathogensFadhlina, A. , Sarker, M.Z.I. , Majid, F.A.A.
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Supercritical carbon dioxide extraction of marigold lutein fatty acid esters: Effects of cosolvents and saponification conditions

Palumpitag, W. , Prasitchoke, P. , Goto, M.
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Abstract

Supercritical carbon dioxide (sc-CO₂) extraction was carried out on *Stereospermum fimbriatum*'s stem bark in order to obtain an enriched extract containing the targeted active compound. The recovery of its active compound, C1, was compared with the most active Soxhlet's extract of dichloromethane. A minimum inhibitory concentration (MIC) assay was done to examine the antibacterial activity of extracts against methicillin-resistant *Staphylococcus aureus*. The optimum condition for an enriched extract of sc-CO₂ to have a maximum recovery of C1 at MIC value of 400 µg/mL was suggested to be operated at 40°C and pressure at 30 MPa, with addition of 6% co-solvent. © 2019, © 2019 Council of Scientific and Industrial Research, Govt. of India.

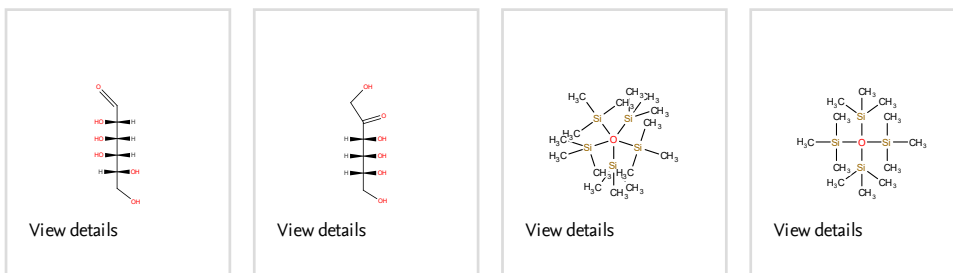
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antibacterial activity; full factorial design; stereospermum fimbriatum; Supercritical carbon dioxide extraction

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