



# Modern Techniques and Solvents for the Extraction of Microbial Oils (SpringerBriefs in Molecular Science)

*Alice Meullemiestre, Cassandra Breil, Maryline Abert-Vian, Farid Chemat*

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## **Modern Techniques and Solvents for the Extraction of Microbial Oils (SpringerBriefs in Molecular Science)** Alice Meullemiestre, Cassandra Breil, Maryline Abert-Vian, Farid Chemat

A valuable reference presenting many processes that facilitate lipid extraction from micro-organisms.

Amongst the techniques included are Folch, Bligh and Dyer methods, and the Soxhlet technique as well as intensified green processes (ultrasound, microwave, supercritical fluid extraction, agro-solvent, accelerated solvent extraction, enzyme-assisted extraction, instant controlled pressure drop, pulse electric field). In addition to a section featuring the analysis of fatty acids by Gas Chromatography and lipids by High-Performance Thin-Layer Chromatography (HPTLC), this brief contains a valuable bibliography on microorganisms (classes, structures) and their applications as a source of value added oils and compounds for food and non-food applications such as biojet fuel.

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