



Antifungal and Antibacterial Metabolites from a French Poplar Type Propolis

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Auteur	Boisard, Séverine [1], Le Ray, Anne-Marie [2], Landreau, Anne [3], Kempf, Marie [4], Cassisa, Viviane [5], Flurin, Catherine [6], Richomme, Pascal [7]
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Mots-clés	antimicrobial activities [8], French Propolis [9]
Résumé en anglais	<p>During this study, the in vitro antifungal and antibacterial activities of different extracts (aqueous and organic) obtained from a French propolis batch were evaluated. Antifungal activity was evaluated by broth microdilution on three pathogenic strains: <i>Candida albicans</i>, <i>C. glabrata</i>, and <i>Aspergillus fumigatus</i>. Antibacterial activity was assayed using agar dilution method on 36 Gram-negative and Gram-positive strains including <i>Staphylococcus aureus</i>. Organic extracts showed a significant antifungal activity against <i>C. albicans</i> and <i>C. glabrata</i> (MIC₈₀ between 16 and 31 µg/mL) but only a weak activity towards <i>A. fumigatus</i> (MIC₈₀ = 250 µg/mL). DCM based extracts exhibited a selective Gram-positive antibacterial activity, especially against <i>S. aureus</i> (SA) and several of its methicillin-resistant (MRSA) and methicillin-susceptible (MSSA) strains (MIC₁₀₀ 30–97 µg/mL). A new and active derivative of catechin was also identified whereas a synergistic antimicrobial effect was noticed during this study.</p>
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Liens

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