

財團法人農業科技研究院及合作單位 可移轉技術簡介

技術名稱 Technology Term	木瓜籽油萃取製程開發 Papaya black seed oil extract process
技術發明人 Technology Representative	洪紹文 Shao-Wen Hung
技術應用領域 Technology Field	美粧產品 Cosmetic product
技術簡介 Technology Description	<p>二氧化碳為最主要的超臨界流體，無污染、無有機溶劑殘留、高效、低成本等優點，搭配其溫和的萃取條件正好可發揮萃取植物來源之天然機能活性成分，本技術使用超臨界二氧化碳萃取技術，進行木瓜籽活性分子的萃取，完成其抗菌成份與功效測試，萃取率為 23.2%，優於索氏提取法之 4%。木瓜籽油成分含 65% 的油酸，也具有抗菌、抗癌細胞功效。</p> <p>Supercritical fluid extraction has the advantages of no pollution, no residual organic solvents, high efficiency, and low cost. With its mild extraction conditions, it can play a role in extracting natural functional active ingredients derived from plants. We established a supercritical carbon dioxide extraction technology platform in ATRI. In the papaya seed oil extraction, the recycling and reuse of agricultural materials and by-products are developed for cosmetic products. The extraction rate was 23.2%, which is better than the Soxhlet extraction method of 4%. Papaya seed oil contains 65% oleic acid, which also has antibacterial and anti-cancer effects.</p>
技轉相關 圖/表	
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