

solvent volume (from 0.5 to 0.8 g OP/mL solvent), and transforming an environmentally hazardous agro-industrial by-product to an extract of great biological interest. • scCO₂ was able to remove the remaining oil similarly to the conventional method, excluding toxic organic solvents. The PLE CCD system achieved a clear enhancement of the DE richness, using exclusively green solvents. Different conditions were found to optimize each response, establishing a selective, scalable and effective process.

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