

A method for separating a palladium catalyst from the medium in which it dissolved is disclosed. Specifically, the method is useful for separating a palladium catalyst from a medium resulting from a butadiene hydroxycarbonylation reaction producing pentenoic acids. The method therefore comprises at least partially separating the palladium dissolved in a solution that also contains 3-pentenoic acid, and is characterised in that said solution is acidified and stirred with an aqueous hydrochloric acid solution and in that two liquid phases are produced, including an aqueous phase containing all or part of the palladium.