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(54) Title: FUNCTIONALIZED COMPOSITIONS COMPRISING AN ENGINEERED PHENYLALANINE AMMONIA LYASE (PAL)

(57) Abstract: The present invention relates to a composition comprising a solid carrier, an engineered phenylalanine ammonia lyase or a fragment thereof immobilized on the surface of the solid carrier, a protective layer to protect the engineered phenylalanine ammonia lyase or a fragment thereof by embedding the engineered phenylalanine ammonia lyase or a fragment thereof, and a functional constituent immobilized on the surface of the protective layer, wherein the functional constituent immobilized on the surface of the protective layer is a polymer comprising repeat units wherein each repeat unit comprises at least one amino group and/or at least one thiol group. The present invention also relates to methods of producing said composition and uses thereof.



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