Tyrosinase reaction and subsequent chitosan adsorption for selective removal of a contaminant from a fermentation recycle stream.

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Abstract: In the industrial production of penicillin V, the phenoxyacetate precursor is added to the fermentor to direct the substrate to the synthesis of penicillin V. Enzymatically-catalyzed substrate conversion to the product is followed by adsorption to chitosan and removal of its products from solution, while the concentration of the phenoxyacetate precursor was unaffected.


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