

عنوان مقاله:

Green Manufacturing of β-Lactam Antibiotic 'Cephalexin' with Immobilized Penicillin-G Acylase

محل انتشار:

چهارمین کنفرانس بین المللی یافته های نوین علوم و تکنولوژی (سال: 1396)

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خلاصه مقاله:

Pharmaceuticals & fine chemicals are one of the most polluting industries, due their large consumption of energy and chemicals, and also high volumes production of organic waste and byproducts. Enzymatic processes, however, offers potential opportunities for changing the industry towards more environmentally friendly and efficient operations compared to the conventional chemical methods. The present work is replacement of traditional organic process by a green biocatalytic alternative in industrial production of Cephalexin. Cephalexin is synthesized with 7-amino-3deacetoxycephalosporanic acid (7-ADCA) and D(-)-phenylglycine methyl ester (PGME) using immobilized penicillin G acylase in aqueous medium

کلمات کلیدی: Green manufacturing, Aqueous medium, Penicillin-G acylase, β-Lactam antibiotic, Cephalexin

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