Isolation of native Clostridia for utilization of agroindustrial cherry waste into butanol Cordero C. Candia O. Tapia X. Muñoz P. The use of butanol synthesized from organic waste has been widely studied, but the lack of native strains of Clostridium and the use of a synthetic medium for its growth remain important barriers to extend its use. In this work, it was possible to isolate and characterize three strains of Clostridium sp. native using the Cherry Waste (ChW) as a culture medium, contained 106 g L?1 of total carbohydrates equivalent glucose, and a synthetic medium (P2) as control containing 20 g L?1 of glucose, which demonstrated that isolated natives strains are producers butanol, used ChW as culture medium. The work done is a contribution in the field of bioenergy science to increase the bioconversion of agroindustrial waste energy and thus reduce the costs of biofuel production. © 2019 John Wiley & Sons, Ltd. ABE fermentation agro-industrial waste butanol Clostridium native strain Butenes Clostridium Glucose Abe fermentations Agro-industrial wastes Bio-energy

Culture medium
Organic wastes
Synthetic medium
Total carbohydrates
Strain

Biofuel production