

Enzymatic synthesis of hydroquinone beta-xyloside from xylooligosaccharides

Abstract

β -Xylosidase of *Aspergillus pulverulentus* catalyzes a transxylosylation reaction from xylooligosaccharides to acceptor hydroquinone. Two transfer products were purified and their structures were examined. These were identified as hydroquinone β -(1 \rightarrow 4)-xyloside and hydroquinone 4-O-(β -xylosyl)- β -xyloside. The hydrolysis of these glycosides apparently took place accompanying the synthesis of the transfer products.