Catalytic efficiency of sulfuric and hydrochloric acids for the hydrolysis of *Gelidium latifolium* (Gelidiales, Rhodophyta) in bioethanol production

Publons ID	20523305
Wos ID	WOS:000357225200015
Doi	10.1016/j.jiec.2014.12.024
Title	Catalytic efficiency of sulfuric and hydrochloric acids for the hydrolysis of <i>Gelidium latifolium</i> (Gelidiales, Rhodophyta) in bioethanol production
First Author	
Last Author	
Authors	Meinita, MDN; Marhaeni, B; Winanto, T; Setyaningsih, D; Hong, YK;
Publish Date	JUL 25 2015
Journal Name	JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY
Citation	32
Abstract	Gelidium latifolium was selected as a potential resource for bioethanol production among 25 tropical red seaweed species candidates due to its high carbohydrate content. This report shows a catalytic efficiency comparison between sulfuric (H2SO4) and hydrochloric acid (HCI) as feasible catalysts, which are used for the hydrolysis of G. latifolium. H2SO4 showed better hydrolysis compared to HCI based on sugar production, catalytic efficiency, and ethanol production. These results are important for future applications of bioethanol production on an industrial scale. (C) 2014 The Korean Society of Industrial and Engineering Chemistry. Published by Elsevier B.V. All rights reserved.
Publish Type	Journal
Publish Year	2015
Page Begin	108
Page End	114
lssn	1226-086X
Eissn	1876-794X
Url	https://www.webofscience.com/wos/woscc/full-record/WOS:000357225200015
Author	Prof. Dr MARIA DYAH NUR MEINITA, S.Pi