

**Ethanol fermentation with Ammonia pretreated *Laminaria japonica***

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Laminaria was pretreated using aqueous-ammonia solution at moderate temperatures to enable production of the maximum amount of fermentable sugars from enzymatic hydrolysis. The reaction conditions, which resulted in an enzymatic digestibility of 55.6%, were found to be 165°C, 10 min and an ammonia concentration of 15% (w/w). Additionally, saccharification and fermentation was conducted with laminaria to assess the ethanol production yield and productivity.