

How to extract bioethanol effectively by distillation.

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In Japan, the number of *Solidago altissima* is increasing, and it is rampant. Therefore, we have been researching whether bioethanol can be used as a new energy resource by producing bioethanol from *Solidago altissima*. Mix crushed *Solidago altissima* and sulfuric acid and sterilize with autoclave. Then, it was centrifuged, activated carbon was added, and the mixture was filtered, and then cultured for 3 days to try to produce ethanol. At present, ethanol has not been recovered yet. In the future, we will carry out experiments by changing the amount of sulfuric acid added. Ultimately, we would like to discover the possibility that *Solidago altissima* will become a new energy resource with the goal of efficiently extracting ethanol.

Keywords: *Solidago altissima*, bioethanol, a new energy resource