

# Review of: "Recycling of Waste Bamboo (*Bambusa vulgaris*) into Value-Added Platform Chemicals: Bioethanol and Bioethylene"

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**Potential competing interests:** No potential competing interests to declare.

I strongly recommend rejecting the article as it is more of an amateur bibliographic survey, of amateur reactions without any scientific nature and without certification of the results obtained. Furthermore, I can highlight the following points:

The summary needs to inform about the purity and yield results obtained, for example. The summary also needs to mention the techniques involved to attest to the success of the reactions and purifications.

In the methodology, item 3.1 needs to specify which technique and equipment were used to spray bamboo. You need to cite the figures used in the body of the text. Figures 5, 7, and 8 are dispensable. In step 3, you need to present more information, such as the origin of the enzyme, time and temperature of the reaction, whether there was any sample preparation step between steps 2 and 3 (or was the enzyme placed in the mixture that already contained NaOH and H<sub>2</sub>O<sub>2</sub>?), etc. The simple distillation step does not seem to be efficient to obtain anhydrous ethanol; it is believed that there must be more water than ethanol. This water content in the mixture needs to be obtained. Due to this, the yield of the presented process is not reliable. It was also confusing whether the raw mixture was used with all the reagents used in this stage of distillation or whether some filtration process was carried out, for example, before distillation. Step 6 is very confusing, and I can't understand how they trapped a pressurized gas in a cylinder without mentioning it in the methodology. Figure 11 adds nothing and could be replaced by the system described in this topic.

In the Results, it was not clear whether the data in tables 1 and 2 are the standards obtained in the literature or those obtained by the authors. This doubt is due to the fact that it was not mentioned at any point in the article how they obtained these results (specifications of equipment and methodologies). In other words, there are no results or discussions about the methodology followed and the products obtained. Nor was any bibliographical reference mentioned to support the "results."