Dear editor and reviewer,

Thanks for considering our manuscript and all of the useful comments. The reviewer’s comments are very important for our future research, so we revised the manuscript, and gave responses to the comments as follows.

Reviewer: In the bioactivity section, there was still no positive control in this assay.

Response to comments:

We absolutely agree with reviewer’s opinion. The purpose of our project is to screen an active fraction from *Amillariella mellea* fruiting body that lowers blood glucose and develop it into an oral hypoglycemic health food. Therefore, we designed our study according to “National Handbook for Implementing Technical Specification for Evaluation of Health Food”. In the handbook, there is no requirement for a positive control drug, so we did not use a positive control in this article.

However, we also realize the importance of positive control. Based on the reference (Biochemical Pharmacology, 56, 1145-1150, 1998), Metformin could reduce the extent of dexamethasone-induced hyperglycaemia and decreased insulin resistance. Thus, metformin is a suitable positive control drug in our study. In the experiment we are currently working on, a positive control with metformin has been added, but no results have been obtained yet.

Reviewer: I believed that authors have to elucidate the main composition of AAMP more detail rather than only analysis of the monosaccharide composition.

Response to comments:

AAMP contained 68.4% of total carbohydrate, 14.3% of protein and other impurities including ash. From the result of molecular weight, AAMP was composed of two fractions. Since AAMP is a mixed polysaccharide, it makes little sense to directly obtain more structural information.

In a subsequent experiment, we further fractionated AAMP using a DEAE-cellulose column to obtain two homogeneous polysaccharides AAMP-N and AAMP-A. After structural analysis, AAMP-N is a mannosylgalactoglucon, AAMP-A is glucan. And the hypoglycemic effects of them were still under investigation, thus these data are not suitable for inclusion in this article.