**ABSTRACT**

Diabetes mellitus is a group of metabolic disease in which a person experiences high blood glucose levels either because the body produces inadequate insulin in the body. Though there are several treatment options available there are limitations such as high costs and side effects, weight gain etc. For this reason, the use of medicinal plants has increased to be used as an anti-diabetic agent with less side-effect and more efficient. In this regard, this study analyzed the anti-diabetic potential of Garcinia kola and Syzygium cumini using alpha amylase inhibition assay and glucose uptake by yeast cells. It was observed that Ethanol extract of Garcinia kola increased anti-diabetic potential compared to Syzygium cumini.