Reviewer's report

Title: Analysis of glycation induced protein cross-linking inhibitory effects of some antidiabetic plants and spices

Version: 2 Date: 24 January 2015

Reviewer: Karuppusamy Arunachalam

Reviewer's report:

Introduction
Aim of the study was not argued well. The glycation induced protein cross-linking inhibitory effects didn’t explain in mechanism level of diabetic complication.
The present study, evaluated for the antidiabetic potential medicinal plants deals glycation induced protein cross-linking inhibitory effects. The same plant parts and the same concentration already reported about anti glycations effects by authors, what is the novel objective executed in this manuscript authors should be given the proper justification. Generally, when the glycation is inhibited, the protein cross-linking also is inhibited.

Methods
Line no. 126-131, 137 and 138: All the plant names should be given with author citation
Line 142: How much of the extract yield percentage?
Line 154: What is the reason for the incubation period of 31 days?
On what basis you have selected methanol extract sonication method? Explain.

Result
This section not properly explained. Just mention the figure legend only, there is no technical sound.

Discussion
The autoxidation of glucose or amadori compounds on protein plays a major role in the formation of glyoxidation products and cross-linking of collagen by glucose in vitro and that chelators, sulfhydryl compounds, antioxidants, and aminoguanidine. Unfortunately, authors didn't discuss the same.

Conclusion
This part should be improved

Reference
Authors carefully format all the reference as per the journal instructions.
eg: line 410, 420, 422, 426, 433, 444,
- the journal name was given in abbreviated form it should be given full name.

Figure
Figure 6B ladder band and sample bands merged. There is no originality; it should replace the original figure.

**Level of interest:** An article of insufficient interest to warrant publication in a scientific/medical journal

**Quality of written English:** Needs some language corrections before being published

**Statistical review:** Yes, but I do not feel adequately qualified to assess the statistics.

**Declaration of competing interests:**

Don't disclose the reviewer details...