Reviewer's report

Title: Anti-diabetic potential and antioxidant activities of traditional medicinal plants

Version: 3 Date: 24 April 2012

Reviewer: Savarimuthu Ignacimuthu

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Major Compulsory Revisions

• Though the MS has been revised well, we found that this MS still needs some revision.
• The authors were still using the word 'antidiabetic'. Inhibition of #-glucosidase/ #-amylase activities does not cure diabetes. It should be mentioned either as "#-glucosidase and #-amylase inhibitory effects of .." or with some sentences like this.
• The authors have stated as “for amylase inhibition, among the five Indian plant extracts screened, only PM extract showed a lower, but not statistically significant, IC50 of 5.16 µg/ml compared to acarbose ..”. But no details were given about the results for statistics in figure.
• In figure no. 2, the statistical significance was mentioned. However, no details were given for figure 1 & 3. In figure 4, the results for sub-title (a) was compared with BHT, where as for (b) there were no comparisons.
• The authors have used a multiple comparison test. If they mention the results of multiple comparisons by mentioning in figures with alphabets, it will be easier to compare between groups.
• Figure 5 is too congested. It should be simplified.
• Recommendation: Revision

Level of interest: An article of limited interest

Quality of written English: Not suitable for publication unless extensively edited

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

Declaration of competing interests:

I declare that I have no competing interests