Reviewer's report

Title: Antioxidant and gastric cytoprotective prostaglandins properties of Cassia sieberiana root bark extract as an anti-ulcerogenic agent.

Version: 2 Date: 21 November 2011

Reviewer: Ciomar A Bersani-Amado

Reviewer's report:

Comments: "The authors evaluated the antioxidant, gastric cytoprotective prostaglandins, phospholipase A2, phytochemical and acute toxicity properties of Cassia sieberiana root bark extract". In general, the extract apparently possesses high antioxidant and gastric cytoprotective properties as well as phospholipase A2 activity which could be due to its content of polyhydroxy an/or phenolic substances. The results are a significant contribution to the knowledge of drugs with antiulcerogenic activities. However, in my opinion the authors should revise their manuscript, and certain details must be reviewed.

Methods:
Animals, page 5.
Why did authors use guinea pigs with such a wide range of weights (varying up to 100g). What was the maximum variation in the weights of animals for both the intra- and –intergroups?
Why were rats and not mice used in the experiments on acute toxicity? What was the weight of the rats used?

Blood sampling, p.7
Was anesthetic used? What type and dose of anesthetic were used?

Acute toxicity, p 8
The range of doses used is very wide (5-2000 mg / Kg). What doses were actually used?

Results:
Describe the results in a more efficient way, because the present text is merely descriptive. Describe the results using tables or figures.

References:
The references must be modified in accordance with the journal norms.
The number of references is very large and they could be selected more appropriately.

Level of interest: An article of importance in its field
Quality of written English: Needs some language corrections before being published

Declaration of competing interests:

I declare that I have no competing interest.