Reviewer's report

**Title:** Antibacterial, antidiarrhoeal and cytotoxic activities of four fractions of Caesalpinia bonducella (L.) Roxb leaves

**Version:** 1  **Date:** 4 November 2012

**Reviewer:** Veeramuthu Duraipandiyvan

**Reviewer's report:**

Reviewer comments

Title of the manuscript: Antibacterial, antidiarrhoeal and cytotoxic activities of four fractions of Caesalpinia bonducella (L.) Roxb leaves

In abstract:
The first time mentioned the tested organisms name in abstract it should be full. Example
‘P. aeruginosa’ should be corrected as ‘Pseudomonas aeruginosa’

Section results:
Line No. 4: The word ‘and’ and ‘sp’ should not be italic

Author has mentioned chloroform extract showed maximum antidiarrhoeal activity, but in abstract, conclusion section it is wrongly mentioned as methanol fraction showed significant antidiarrhoeal activity. It should be corrected.

Throughout the manuscript the cited references should be followed as journal format. Author has given numbers for cited references in text and also given full name, it should be corrected. For example in Backround section mentioned ‘Devi RA et al., (2008)’. Year should be removed.

Materials and methods

Antibacterial assay

How many inoculums size is used in the present study? It should be given in the manuscript.
The plates should be incubated for 24 hours not for 12 hours

Author should be given tested microbes as separate sub head like ‘Tested microbes’

Diarrhoeal test

Author should be given ethical approval Number.

Results
Antibacterial assay

The sentences ‘B. megaterium and Klebsiella sp’ should be corrected as ‘B. megaterium and Klebsiella sp’

Table1

The title of table 1, the word ‘fraction’ should be corrected as ‘fractions’

In the foot notes of table 1 should be added -: no activity

The name of the organism should be even, some organism have full name some have abbreviated genus name, it should be even

Brine shrimp lethality bioassay

Remove the under line from the plant name

The sentences ‘LC50 values of the methanol, ethyl acetate, chloroform, and pet. ether fractions obtained in the present experiment were 112.2, 223.87 199.53 and 281.84 µg/ml’ are not clear. This data is not similar to table 3 and figure 1.

Where is the table 3 quoted?

References section

The references are not formatted in the journal format. It should be corrected in the journal format.

Throughout the references, the name plant scientific names should be italicised.

General comments

There are many syntax errors found in the manuscript, it should be corrected.
Discussion part should be improved with suitable related work.

Recommendation

The manuscript is needs major revision

**Level of interest:** An article whose findings are important to those with closely related research interests

**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:**
I declare that I have no competing interests