Reviewer's report

Title: In-vitro and in-vivo validation of ethnopharmacological uses of Isodon rugosus

Version: 2 Date: 1 January 2014

Reviewer: Workineh Shibeshi

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Major Compulsory Revisions:

1. The title is must include the solvent used, type of preparation and part of the plant used
2. The doses/ concentrations of the extract used should be indicated in abstract
3. The vehicle used for reconstitution of extract is not clearly mentioned throughout
4. The plant collected should have specimen number for references
5. For extraction, what proportion of solvent and plant material was macerated?
6. Authors listed Wistar rats, but no result indicating their use
7. Why authors used isotonic contractions for rabbit jejunum preparations and isometric contractions for rabbit tracheal and aortal preparations?
8. The authors have to provide details for methodologies for assays including anticholinesterase, lipoxygenase, antioxidant, antiemetic, analgesic and antipyretic activities
9. The authors indicated in methods that quercetin was used as positive standard for anti-oxidant activity testing, but in results ascorbic acid is shown?
10. Authors stated that they cited methods with minor modifications, but they did not indicate what is modified?
11. Why authors used for antiemetic, analgesic and antipyretic, antioxidant activities, just a single dose of 150, 200, 80 mg/kg of extract? And how do these single doses were selected without conducting acute toxicity studies?
12. In testing for anticholinesterase, lipoxygenase, antioxidant activities (Table 1, 2), why there is not negative control?
13. For antipyretic activities assays, what was the name and dose pyrogen administered?
14. Did the authors compared all results with controls for their statistical significances?
Minor Essential Revisions:
Editorial work needed. Example myastenia gravis and eserine are misspelled

Level of interest: An article of importance in its field

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 do not have any of competing interests in any way to this article