Reviewer's report

Title: Safety and Efficacy Assessment of Standardized Herbal Formula PM012

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Reviewer: Shi-Chuen Miaw

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This is an interesting study, demonstrating that herbal formula PM012 could enhance the spatial learning and memory capacities on hPS2m transgenic mice, Alzheimer’s disease model animals. The authors also show that there are no observed adverse effects at the dose of 2000 mg/kg/day on Sprague-Dawely rats. The authors suggest that PM012 could be a potential treatment for Alzheimer’s disease. The authors have performed extensive efficacy and safety assessment. However, the Figures and Tables are not illustrated clearly and the results are described too briefly to be appreciated, thus some points are required to address for their conclusion.

1. In ‘Results’, which paragraphs describe the data of Fig. 2 C and Table 1?
2. In ‘Results’, where is the data for urinalysis?
3. In ‘Results’, is the Fig.1A a typo?
4. There are two Table 4s. Why?
5. What is the meaning for the result in Fig.1? Could the authors address the issue in ‘Discussion’?

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 declare that I have no competing interests.