Reviewer's report

Title: A Round Robin Approach to the Analysis of Bisphenol A (BPA) in Human Blood Samples

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Reviewer: Xu-Liang Cao

Reviewer's report:

This manuscript is well written, and addressed some issues (e.g., method validation for conjugated BPA, interlaboratory studies, etc.) identified during the 2010 Joint FAO/WHO Expert Meeting on Toxicological and Health Aspects of BPA. The authors are suggested to consider the following comments for the revision.

A Round Robin study is similar to the inter-laboratory study with the major objective being to evaluate the performance of each participating laboratory in the analysis of a series of samples for some particular chemical(s). However, this objective may not be among the three goals addressed in this study, and thus should be added or revise goal #2. The authors actually did all the work, analysed samples with different levels of uBPA and BPG-G (e.g., Figures 3 and 6), although the results, especially at lower levels, do not agree well among labs. The authors should discuss more on the performance of each participating laboratory in terms of the results; what are the possible causes for the large differences for some of the samples, how could they be improved, and what are the implications of the results uncertainty, etc.

Other comments:

1. Table 3 title: should be four labs, not five?
2. Table 3: why the LODs for uBPA and BPA-G are so much different, especially for Labs 1 and 2? How were they determined?
3. Provide info on chemicals (BPA and BPA-G in particular) used, source, purity etc.
4. Manuscript title could be revised to better reflect contents.

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

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:
I declare no competing interests.