

Review of: "Infrared Spectroscopy (FT-NIR) and t-Distributed Stochastic Neighbor Embedding (t-SNE) as an Analytical Methodology for Rapid Identification of Tea Adulteration"

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Potential competing interests: No potential competing interests to declare.

This article describes a machine learning approach combined with NIR spectroscopic analysis to differentiate various tea samples. This work needs major revision before publication. Here are my comments.

- 1. The tea leaves preparation (sample preparation) method for the NIR experiment should be clearly stated.
- 2. For the Quebra Pedras tea leaves, the normalized reflectance in Fig 4 (a to c) spectra seems a lot different from the deconvoluted spectra. A better spectrum should be represented.
- 3. The authors stated that they have used Gaussians for deconvolution. They should mention the importance of using Gaussians and not any other deconvolution method here.
- 4. The cluster analysis of teas should be described in more detail.

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