

Electrostatic Properties of Botanical Extracts: A Preliminary Investigation

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Abstract— Botanical extracts are popularly employed in nutritional and healthy products. However, they typically are highly charged with very low density, causing many manufacturing problems during processing. They usually have a very poor flow properties and strong sticky issues. Electrostatic properties of those botanical extracts and other ingredients that are frequently used in the product formulations are investigated and the preliminary results are presented. How to accurately characterize those materials seems to be very challenges due to the natural variations of those ingredients. The possible physical mechanisms on why the data vary so much are provided.