



September 21<sup>st</sup>, 2023

Ilakkuvaselvi Manoharan,  
CEO, Bubbles & Café Inc,  
990 Shoreline dr,  
Aurora, IL 60504

RE: Letter of Intent

Dear Ilakk,

This letter serves as a letter of intent to collaborating with you on your reaction vessel for crystal synthesis as an in-space production application and potentially implementing it for a spaceflight mission.

BioServe Space Technologies is a Center within the Ann and HJ Smead Aerospace Engineering Sciences department at the University of Colorado Boulder. Since its inception in 1987, BioServe has designed, built, and flown hundreds of microgravity life science research experiments and hardware on over 90 spaceflight missions. BioServe has a full suite of spaceflight-certified hardware available for use by its customers and partners. Past partners include pharmaceutical and biotechnology companies, Universities, NIH, NSF, NASA-funded and other government agency researchers. BioServe is a full-service, turn-key organization that enables its customers and partners to focus solely on research while BioServe manages all other activities required to successfully fly experiments in microgravity.

Sincerely,

A handwritten signature in blue ink that reads "Tobias Niederwieser". The signature is fluid and cursive, with the first name "Tobias" and last name "Niederwieser" clearly legible.

Tobias Niederwieser  
Assistant Research Professor  
BioServe Space Technologies  
University of Colorado  
Boulder CO 80303  
[tobias.niederwieser@colorado.edu](mailto:tobias.niederwieser@colorado.edu)