


Edible packaging for long duration missions

Finding a way to reduce trash and increase
nutrient rich supplements for the gut biome.



Why Edible Packaging?

Long duration space mission means a lot more potential trash

- Reducing Trash will be an important aspect of long missions.

Supplementation means attributable nutrient source for the microbiome of the gut.

- Proper balance of the microbiome means better immunity and overall health of the crew.

Objectives:

- The usual carbon-based foam is replaced by **edible products** as container walls
 - To protect hardware/instruments launched to and use on board long duration space vehicles with equivalent structural properties compared to the carbon-based foam used currently.
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Design

- Design a structural food supplement that can withstand launch forces and keep what is contained in bag safe.
- Design a food supplement that is characteristically supportive of the gut biome.
- Use minimal non-food materials to contain the structure of the food supplement.

