

Vitamin D gummy supplements and their shelf life

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- Developing vitamin D gummy supplement
 - With 2 types of gums: Gelatin, agar-agar
 - With 2 types of juices: Strawberry, carrot
 - In total 4 gummy types
- Shelf life was measured

This project is not part of another study







Method

- Development of the gummies
 - Experimental designs were used to invent the recipe (gelatin used)
 - Other gums were tested on the recipe and adjusted
- Shelf life measurements
 - Time period: 14 weeks
 - Vitamin D activity, color, texture and consumers test





- Color changed significantly in all the gummies (varied between types)
- Consumers test:
 - Color in Strawberry Agar gummies changed significantly
- Vitamin D decreased in all the gummies over the time period
- I'm working on the results <u>at the moment</u> so unfortunately I can't give you more information right now





Discussions

- It is not on the agenda to put these vitamin D gummies on the market in Iceland
 - But maybe it will happen one day ☺
- People who live in Iceland <u>need</u> to take vitamin D as a supplement due to lack of sunlight
 - Gummy vitamins might be more appealing than conventional tablets
 - Could solve "pill-swallowing" problems that some adults and kids experience





Thank you for listening

