

Abstract

In this experiment we will be testing four different brands of green teas. Green tea is known for helping treat illnesses. Our question is... Green Camellia Sinensis leaves has undergone minimal oxidation during process. How this contributes to our community is that people will know exactly whether their favorite green tea is helping them when they are sick.

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In this experiment we will be testing four different brands of green teas. Green tea is known for helping treat illnesses. Our question is... Green Camellia Sincensis leaves that has undergone minimal oxidation during process. How this contributes to our community is that people will know exactly whether their favorite green tea is helping them when they are sick.

Introduction

if you watch television, you might have noticed that there have been a lot of commercials warning consumers about recalls on deleterious products that are being investigated. The question that was asked is "Are products being sold as green tea with advertised health benefits really authentic green tea?" This question was asked because many green tea making companies make and advertise the health benefits of green tea. However people who purchase these items do not know for sure if the product they buy is truly authentic.

Health Benefits of Green Tea

- Cholesterol
- Immunity
- Asthma
- Ear Infection
- Liver Diseases
- Flu and Cold
- Oral Health
- Bone Health
- Weight Loss
- Heart Health
- Anti-aging
- Blood Pressure
- Diabetes

Health Benefits of Turmeric

- Cholesterol
- Immunity
- Asthma
- Ear Infection
- Liver Diseases
- Flu and Cold
- Arterial Health
- Bone Health
- Weight Loss
- Heart Health
- Anti-aging
- Blood Pressure
- Diabetes

Methods

For our experimentation we were instructed to collect samples of different green tea. The samples we collected were Knasdale, Twinings, Lipton, and Celestial tea. The methods we used in this experiment was to isolate and extract the DNA. This extraction required many steps involving the use of a centrifuge, using the thermal cycle grinding up the green tea, incubating the sample, adding different liquids, and cooling down of the sample.

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Results

We tested four different green tea brands which are Lipton, Knasdale, Celestial, and Twinings. Out of the four green teas tested Knasdale was the only brand that came out with DNA. Instead of Camellia Sinensis being a match in the green tea's DNA, chemicals like Hedera Helix, Dendropanax Arboreus, Oreopanax Capitaus, Acanthopanax Tribolium, Aralia Nudicaulis, Tetra Papyrifera, and Hedera Rhombica were found.

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Case No.	Age	Sex	Occupation	Duration of Illness	Site of Lesion	Microscopic Findings	Diagnosis
1	45	M	Farmer	10 years	Right lower leg	Chronic inflammation with many eosinophils	Eosinophilic cellulitis
2	55	F	Housewife	5 years	Left lower leg	Chronic inflammation with many eosinophils	Eosinophilic cellulitis
3	65	M	Retired	15 years	Right lower leg	Chronic inflammation with many eosinophils	Eosinophilic cellulitis
4	75	F	Housewife	10 years	Left lower leg	Chronic inflammation with many eosinophils	Eosinophilic cellulitis
5	85	M	Retired	20 years	Right lower leg	Chronic inflammation with many eosinophils	Eosinophilic cellulitis
6	95	F	Housewife	15 years	Left lower leg	Chronic inflammation with many eosinophils	Eosinophilic cellulitis

Materials:	Pipettes
Pestle	Tubes
Water buffer	etc....
Synfoam	
Thermometer	Krasdale Green Tea
Electrophoresis	Twinnings Tea
Ginger	Ultraviolet Gel
Tubes	Celestial Tea
	Lipton Green Tea

Centrifuge	Pipettes
Three Different Size Pipettes	Tubes
Krasdale Green Tea	etc...
Twinnings Tea	
Ultraviolet Gel	
Celestial Tea	
Lipton Green Tea	

Oreopanax
capotatus

Oreopanax capitatus

Aralia
Multi-
Caulis

Camellia *Sinensis*

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We would like to thank Melissa from the Lab, Patricia, Richard, Malika, Marilyn, Malika and my peers. We would not have been able to do this project without their help. As a result of this experiment we have gained knowledge in understanding the ingredients of Green tea. We have grown to question ingredients of products as they are marketed, and become more thoughtful of what we put in our bodies.

acknowledgements

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Discussion

The results means if the green tea is authentic or not. The origin of green tea is camellia synests and we are comparing our variety of brands to the barcode available in the genbank. This is important because not only do group members of this project think it for health benefits but other people do to. Our hypothesis was that there would not be camellia synests DNA in the cheaper brands, but that the more expensive brands like Twinings and Celestial.

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