

# Assessing antioxidant activity of strawberry tree honey using DNA plasmid phiX174 RF1: A pilot study

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## Research

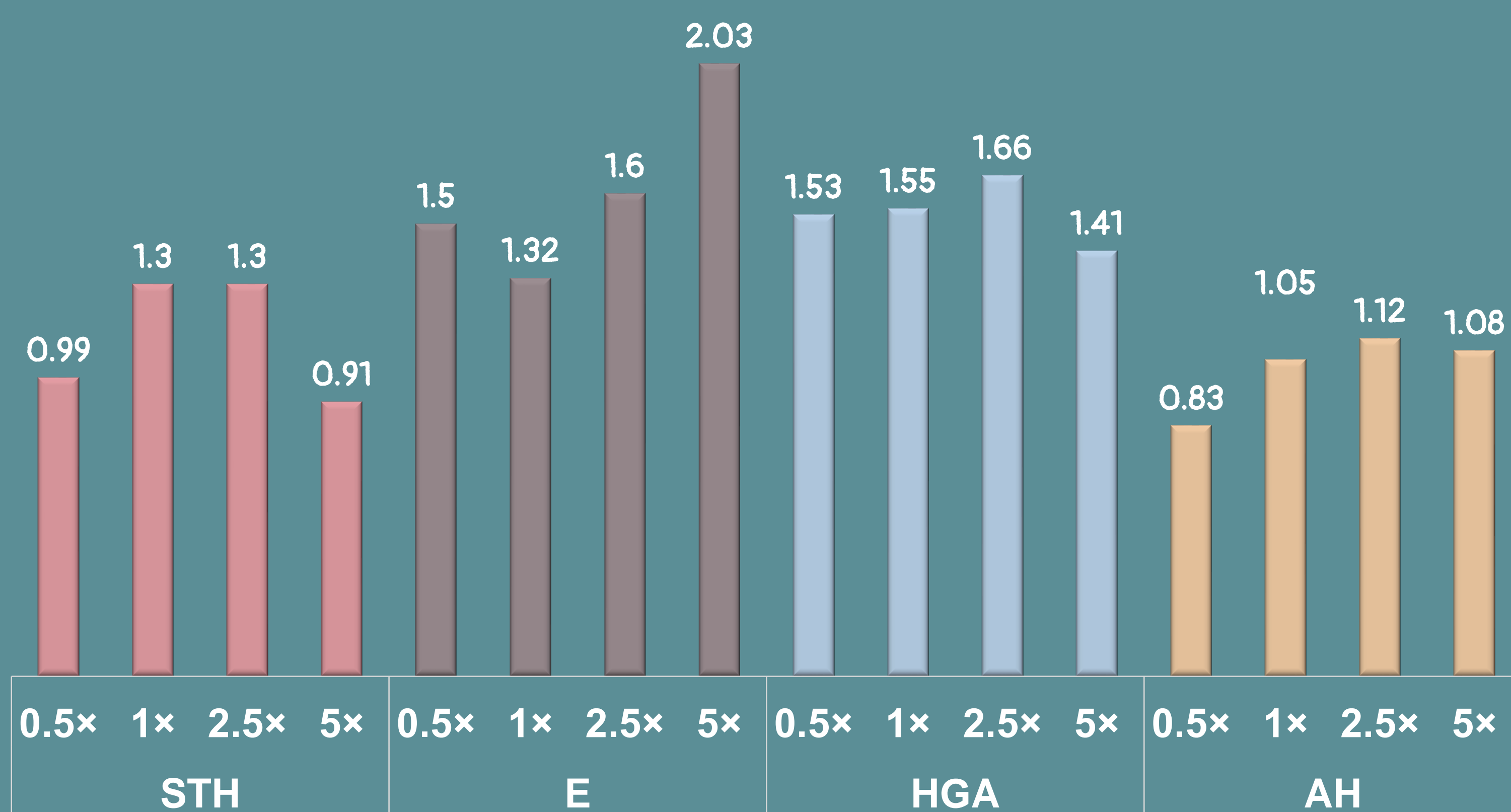
Strawberry tree honey (*Arbutus unedo* L. – STH), a unique type of monofloral honey with a distinct bitter flavour, is renowned for its abundant phenolic content and powerful antioxidant properties, contributing to various beneficial health effects.

## Methodology

- STH, E, and HGA were tested in four concentrations selected based on the typical daily intake of STH by an adult
- To examine the impact of sugars, artificial honey (AH) was also evaluated

## Results

Quotients intensity of tested substances and positive controls

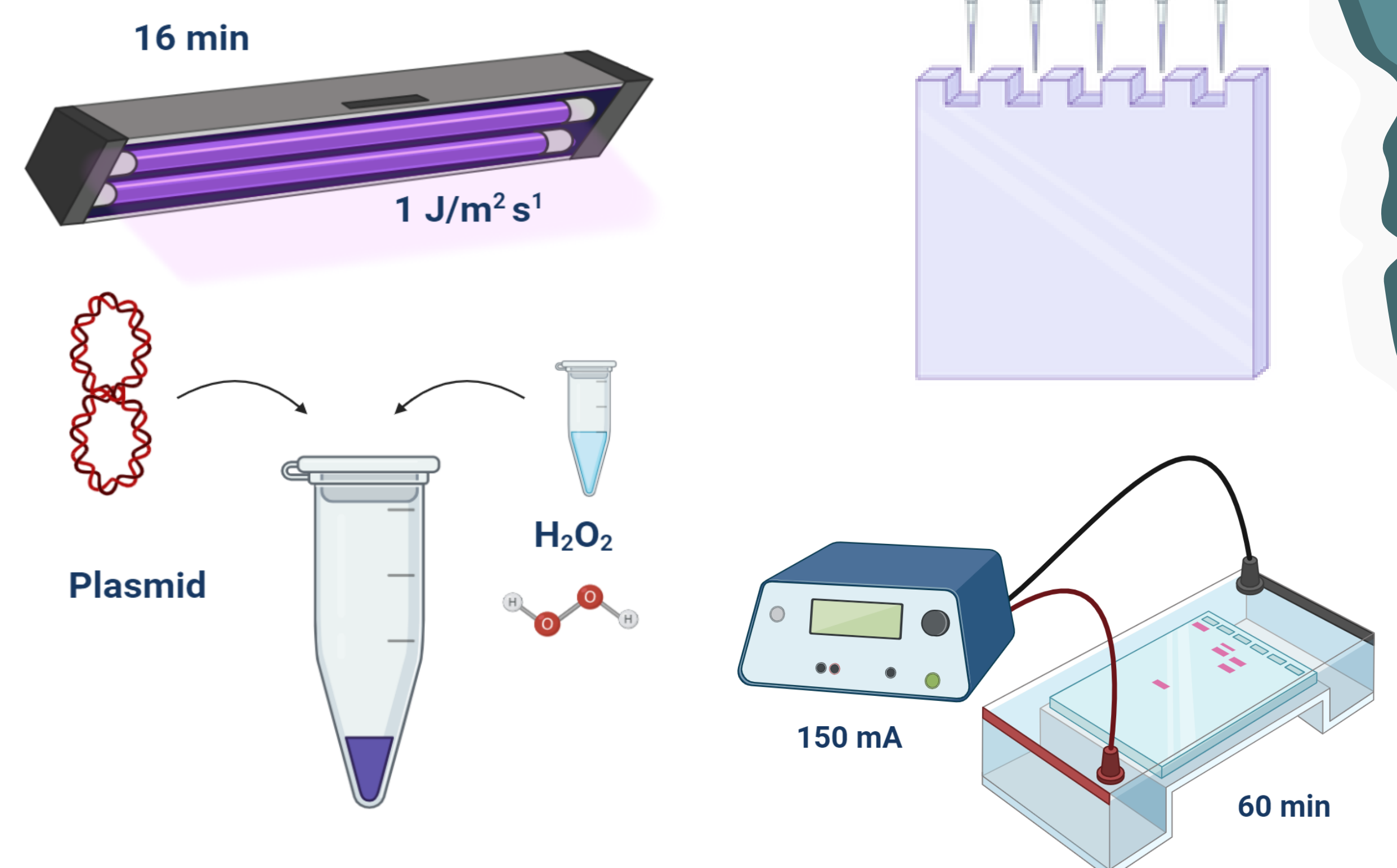


## Aim

Evaluate the antioxidant activity of STH, STH phenolic extract (E), and dominant phenolic acid in STH – homogentisic acid (HGA) using DNA plasmid phiX174 RF1.

## GelAnalyzer 19.1

Free desktop app for 1D gel electrophoresis evaluation



## Conclusions

- The antioxidant activity decreases as follows: E > HGA > STH
- The results indicate that the antioxidant character of the E is strongly dependent on the specific mixture of bioactive compounds present