WIU CENTENNIAL HONORS COLLEGE Thomas E. Helm Undergraduate Research Day 2022

Abstract

Poster

Major Forensic Chemistry

Faculty Mentor: Brian Bellott

Antioxidant Capacities of Hot Brewed Tea vs. Cold Brewed Tea

Michael Combs

Prussian Blue is a pigment that has been synthesized throughout history for various uses in art, medicine, and chemistry. This pigment is primarily utilized as a colorimetric indicator that evaluates the concentration of phenols and polyphenols within a sample. These chemicals belong to a group called antioxidants that neutralize harmful free radicals in the human body. This study is focused on discovering the best method of synthesizing the Prussian Blue reagent in a range of concentrations to create a calibration curve. This calibration curve will be used to compare the antioxidant capacities of various cold-brew teas to hot-brew teas.