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Working

Determination of phenolic compounds

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ABSTRACT

Phenolic compounds determined using the Folin-Ciocalteu reagent.

EXTERNAL LINK

<https://doi.org/10.1371/journal.pone.0213493>

THIS PROTOCOL ACCOMPANIES THE FOLLOWING PUBLICATION

Georgé S, Brat P, Alter P, Amiot MJ. Rapid determination of polyphenols and vitamin C in plant-derived products. J Agr Food Chem. 2005; 53: 1370-1373.

PROTOCOL STATUS

Working

MATERIALS

NAME	CATALOG #	VENDOR
Sodium carbonate	View	P212121
water		
10 g Gallic Acid	orb322314	biorbyt
Folin-Ciocalteu		Sigma – Aldrich

SAFETY WARNINGS

- 1 An aliquot of sample (0.25 mL) was mixed with 0.15 mL of the Folin-Ciocalteu reagent and 1 mL of a 15% sodium carbonate solution.
- 2 Distilled water was added to a final volume of 2.5 mL. Following incubation for 3 min at 37 °C in a water bath, the absorbance was measured at 750 nm. Gallic acid (Sigma-Aldrich) was used as the standard and the results were expressed as µg/mL of gallic acid equivalents (GAE).
- 3 Following incubation for 3 min at 37 °C in a water bath, the absorbance was measured at 750 nm.
- 4 Gallic acid was used as the standard and the results were expressed as µg/mL of gallic acid equivalents (GAE).

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