

EFFECT OF STORAGE CONDITIONS ON POLYPHENOLS IN DANDELIONS

Anna María Trang

Supervisors Kristberg Kristbergsson Björn Viðar Aðalbjörnsson

Introduction

- To examine storage methods: air-dried and frozen -25C
- · Using an environmentally friendly extraction procedure
- Effective under UVB lights (Ultraviolet lights)
- Scientific names: Taraxacum officinale (spring dandelion =Túnfífill) and Leontodon autumnalis (autumn dandelion = Skarifífill)





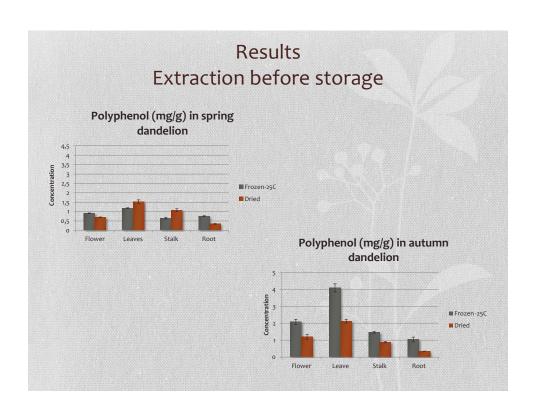


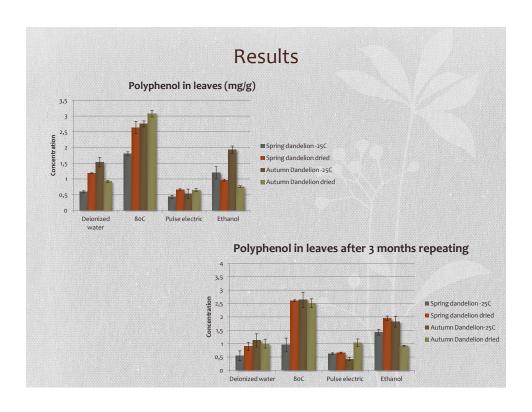
Methods

- · Collected two types of Dandelions, in spring and autumn
- · Separate flower, leaves, stalk and root
- Divided into two groups, half was heat dried the other half frozen under -25C

For a safe and environmentally friendly alternative technology

- · Deionized water
- · Heated to 80 C in an hour
- Pulsed electric fields (PEF)
- Ethanol used as a standard for comparison
- Samples measured under the UVB lights
- Samples collected every 3 months, for 9 months





Unfinished measurements

- Next we will be measure polyphenols under the UVB lights
- Measurement will be repeated in April and July.

Any questions?

Thank you all for listening!