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## STUDIES OF PHENOLIC COMPOUNDS AND PROTEINS AS A MARKER OF THE BIODIVERSITY OF *VICIA FABA* L.

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### ABSTRACT

A collection of 12 varieties of broad bean (*Vicia faba* L.) was studied. This was carried out to see the variation of phenolic compounds (tannins) and proteins of the seeds of *Vicia faba* L.

### This study gave the following results

- At the biochemical level; according to our results one observed a high content in proteins within the species of *Vicia faba* L.

- The electrophoresis of total proteins confirmed the richness of proteins of *Vicia faba* L [albumins (67 kDa), Globulins, Vicilline (50 kDa)].
- Finally the phytochemical analysis (phenolic compounds) allowed us to confirm the richness of the colored seeds in phenolic compounds (condensed tannins) "949 T (183±9.66), Aquadulce (132.19±1.53)". The effect of time (the factor of the environment) inflates on the coloring of the seeds (oxidation) and on the polymerization of tannins.

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