



## AP-10: A physicochemical study of some varieties of quinoa seeds (*Chenopodium quinoa Willd*) recently cultivated in Algeria.

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**Subject description:** In this work, we conducted a physicochemical study of some varieties of quinoa seeds recently grown in Algeria.

**Objectives:** This study aims to determine the biochemical and morphological study of seven varieties of quinoa seeds, newly cultivated in Algeria. This study allowed us to identify the difference that exists between individuals.

**Methods:** We touched on conducting several laboratory experiments, namely estimating the amount of starch and cellulose in two types of quinoa seeds. We also estimated the amount of fatty substance present in two types of quinoa seeds.

**Results and discussion:** The results obtained from the biochemical study showed that individuals Q101, Qgiza02, Qrouge, Qnoir. It is the most special for me the values of the biochemical analyzes. It is clear to us that the fat content is high in two varieties in quinoa seeds and the percentage of cellulose is high in the two varieties, as well as a high percentage of starch in the two varieties. The morphological study showed that individuals are the most distinguished with respect to the majority of morphological measurements, which recorded the most important values of length, width and weight. Moreover, revealed to us information that distinguished between the 07 individuals studied through the values we obtained.

**Conclusion:** We can deduce from the morphological study that it determines the genetic diversity of the studied taxa. It also shows us the genetic diversity and the chemical content is very important for the studied individuals.

**Keywords:** Diversity, Physicochemical, Quinoa, Varieties.