**Faba bean biochemical quality as affected by ascochyta blight incidence on grain**

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Ascochyta blight caused by *Ascochyta fabae* (teleomorph: *Didymella fabae*) is a fungal disease with worldwide distribution. It affects faba bean yield and grain quality. A study of its impact on some biochemical parameters related to the nutritional value of faba bean such as, crude protein (CP), total soluble phenolics (TSP), total tanins (TT), condensed tannins (CT), soluble carbohydrates (TSC), starch (AMI), amylose (AMYL) and amylopectin (AMYPEC) was conducted on 2 grain lots of Badii cultivar representing disease incidences 0% (Healthy) and 100% (diseased). Statistical analysis showed significant effects of the disease incidence on all studied parameters (except for amylose content and TSP). With varying incidence from 0% to 100%, an increase in CP from 23 % to 26% was observed. Total tannins showed an increase from 4.8 to 20 g/kg and condensed tannins showed a decrease from 5 to 2.6 with increasing incidences from 0 to 100%. The soluble carbohydrates content decreased from 3.3 g / kg dry matter for healthy grains to 1.7 g / kg dry matter for diseased ones. Starch content has increased from 25.3% in healthy grains to 35.6% in diseased grains. Amylose content increased also from 15% in healthy grains to 20.3% in diseased ones. As Badii faba bean cultivar is used for animal feed, these results would be of interest for animal nutritionists.

**Keywords:** Ascochyta blight, *Ascochyta fabae,* faba bean quality, biochemical parameters

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