

EXAMINATION OF CATALASE ENZYME IN SEEDS SOME PLANTS AND SOME CHARACTERS OF IT.

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ABSTRACT

The study deals with the investigation of CAT enzyme in *Phaseolus vulgaris*, *Vicia faba*, *Trigonella*, *Nigella saliva* *Brassia oleracca* and *Beta vulgaris* is seeds. The enzyme activity was evaluated. It was found that *Nigella saliva* showed the highest enzyme activity (1.66) U/mg. The leaves content of total protein was studied, it showed the highest content (1.422) ml/mg for the *Phaseolus vulgaris* plant. It was selected as Thormal degree for a high level and the stability of the enzyme with the hydrogynic *number* which depends on the seeds of the black pills (*Nigella satvia*). This study showed the coming results and the temperature for the activation of the enzyme (50C°) and it's reactivity is (0.240) u/ml, so the enzyme showed such an obvious stability for (30 min) in (50C°) /and reached (0.348) u/ml /. According to the hydrogynic number and it's power. Reaction reached (0.318) u/ml at (PH=8). So, the enzyme showed the same stability at the hydrogynic number so, it reached in to(0.601) /u/m/.