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Isolation of DNA for Sequence Analysis from Herbarium Material of Some Lichen Specimens

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Abstract: An improved protocol for the isolation of DNA from herbarium material of some lichen specimens is described. The isolated DNA is suitable for PCR reactions for DNA sequence analysis. The hexadecyltrimethylammonium bromide (CTAB) based protocol defined in this study provides a number of advantages, mainly speed and reliability. In addition, different DNA extraction protocols were examined to determine the yield of DNA from the thallus of lichen specimens. The methods examined include a CTAB based protocol and a sodium dodecyl sulphate (SDS) based protocol. Although these procedures yielded DNA of suitable purity for PCR analysis, the improved protocol yielded DNA of higher quality. The recovery of DNA with an average yield of 25 mg/g of herbarium material was possible with this procedure.

Key Words: DNA isolation, herbarium material, lichen, sequence analysis

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