Optimization of the procedure for extracting nucleic acids from aloe

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Received January 28, 2013
Accepted May 20, 2013
Published January 17, 2014

ABSTRACT. Aloe, an important folk herbal drug, includes abundant polysaccharides and secondary metabolites, which make it difficult to isolate high-quality DNA or RNA. In this paper, one and two improved methods were used to isolate the genomic DNA and RNA from the leaf of aloe, respectively. The obtained samples presented good quality and integrity; thus, they could be further used for many downstream molecular experiments. These reported protocols for DNA and RNA extraction offered a valuable reference for other related studies.

Key words: Aloe; Nucleic acids; Extraction; Purification