High quality nucleic acid (DNA and RNA) extraction from Pea (*Pisum sativum* L.) seeds

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Accepted : November, 2008

**SUMMARY**

Nucleic acid isolation is a prerequisite to the study of gene expression at the molecular level and has an increasingly important role in physiological diversity and genetic engineering based investigations in plants. High throughput DNA extraction from seed can significantly increase the efficiency of screening large mapping or mutation in a population. Many standard protocols are available for isolation of nucleic acid from plants but they do not work consistently well in plant tissues that are rich in polysaccharide and phenolics. With key modification in phenol chloroform extraction and precipitation reaction, a simplified, easy and reliable protocol for the isolation of high quality nucleic acids from pea (*Pisum sativum* L.) seeds has been developed. Standardized protocols offer a significant saving in time for the analysis of DNA and RNA.

**Key words**: *Pisum sativum*, Quality-DNA/RNA, Extraction protocol.