



BIOTECH CONSORTIUM INDIA LIMITED

NUCLEIC ACID ISOLATION KIT

TECHNOLOGY AVAILABLE FOR TRANSFER

TECHNOLOGY

The technology offers a simple and rapid nucleic acid isolation kit for plant tissues without degrading the isolated nucleic acids. The kit is based on simple and cost effective nucleic acid isolation protocol developed by the scientists at Institute of Forest Genetics and Tree Breeding (IFGTB), India.

APPLICATIONS

- Northern analysis
- Nuclease protection assays
- RT-PCR
- RNA mapping
- *In vitro* translation
- cDNA library construction

INTELLECTUAL PROPERTY

Patent pending

COMPETITIVE ADVANTAGES

The Nucleic Acid Isolation kit offers following main advantages:

- Does not require hazardous chemicals such as phenol, lithium chloride and beta-mercaptoethanol.
- Simple and rapid
- The protocol does not involve ultracentrifugation
- High recovery of un-degraded total RNA
- Effective on tissues rich in polyphenols or polysaccharides.
- Effective on tissues recalcitrant to Guanidinium salts.
- Isolation of RNA from highly fibrous plant tissues.
- Low cost of extraction per sample.

STATE OF DEVELOPMENT

The kit has been developed up to lab scale. The method has been successfully tested and validated on different tree species like Eucalyptus, Casuarina, Terminalia, Neem, Jatropha and Ailanthus.

LICENSING OPPORTUNITY

BCIL is looking for a suitable licensing partner involved in development of nucleic acid isolation kits.

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