BIOTECH CONSORTIUM INDIA LIMITED

PROCESS FOR SYNTHESIS OF NANOPARTICLES FOR DRUG DELIVERY

TECHNOLOGY AVAILABLE FOR TRANSFER

TECHNOLOGY

A novel process for synthesis of polymeric nanoparticles for use in drug delivery applications using the electrospraying technique . The technology is standardised for synthesis of natural polymer based nanoparticles such as chitosan-gelatin based nanoparticles.

The process has been developed at the Department of Biological Sciences and Bioengineering of Indian Institute of Technology, Kanpur.

APPLICATIONS

- Developing nanoparticle based drug formulations.
- Synthesising nanoparticles for use in other areas such as agriculture.

INTELLECTUAL PROPERTY

Patent Pending

COMPETITIVE ADVANTAGES

- Single step process for making bioactive agent/drug loaded nanoparticles
- Low cost of synthesis.
- The process may be used to make nanoparticles from any polymer group.

STATE OF DEVELOPMENT

Developed and validated till lab scale

LICENSING OPPORTUNITY

BCIL is looking for a suitable industrial partner involved in development of nanomedicines

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