



NOVEL POLYMERISATION PROCESS FOR BIOPOLYMERS

TECHNOLOGY AVAILABLE FOR TRANSFER

TECHNOLOGY

The technology offers a novel and quick process of polymerisation for the synthesis of biodegradable poly-mers of glycolic acid, lactic acid and co-polymers of both glycolic acid and lactic acid.

The process has been developed at the Chemistry Department of Indian Institute of Technology, Kanpur.

APPLICATIONS

- Sustained release drug delivery systems
- Synthesis of medical implant/ medical implant materials
- Scaffolds for tissue engineering and for tissue reconstruction
- Nanotechnology
- Food Packaging

INTELLECTUAL PROPERTY

Patent Pending

COMPETITIVE ADVANTAGES

- Reaction time is 2-3 hrs.
- Polymerisation process provides polymers with fine characteristics in terms of molecular weight, viscosity, solubility and purity .
- Water generated in the reaction is removed by continuous nitrogen flow so the possibility of reverse hydrolysis of polymers is eliminated.
- Biopolymers produced by the novel process are safe, non-toxic, biocompatible and bio-degradable.
- The 3-dimensional architecture of the biopolymers preserves their mechanical and structural integrity making them favourable to use for a wide range of applications.

STATE OF DEVELOPMENT

The technology is developed and validated till

LICENSING OPPORTUNITY

BCIL is looking for a suitable company interested in producing biopolymers or utilizing biopolymers for a wide spectrum of applications.

CONTACT:

MANAGER (IP AND TECHNOLOGY TRANSFER CELL)
BIOTECH CONSORTIUM INDIA LIMITED
V Floor, Anuvrat Bhawan
210, Deen Dayal Upadhyaya Marg
New Delhi:110 002

Phone: +91-11-23219064-67, 23219053 (Direct) Fax: +91-11-23219063
Email: info.bcil@nic.in Website: www.bcil.nic.in