



شرکت سلول بافت زیست (سبز)

Cloning Workshop

Theory Session:

- ✓ Steps in gene cloning
- ✓ Focus on importance of biotechnology
- ✓ RNA Extraction and Reverse Transcription(Prelab)
- ✓ Polymerase Chain Reaction(Prelab)
- ✓ Primer Design and Bioinformatics
- ✓ Cloning and Genetic Engineering (Prelab)
- ✓ Transformation and prokaryotic Expression systems (Prelab)

Practical Session:

- ✓ RNA Extraction (RNA^X kit)
- ✓ c DNA Synthesis
- ✓ PCR (Mix Preparation and Thermocycling)
- ✓ Plasmid Extraction (GeneJET Plasmid Miniprep Kit)
- ✓ PCR Product and Plasmid Digestion
- ✓ Gel Electrophoresis of Digested products
- ✓ Gel Extraction of Digested Products
- ✓ Ligation
- ✓ Transformation of Ligation Products to Competent E.coli