

Recover Intact DNA Up to >2 Mb in Length

GELase™ Agarose Gel-Digesting Preparation

GELase Agarose Gel-Digesting Preparation is a unique enzyme solution developed at EPICENTRE for quantitative recovery of intact DNA from low melting point (LMP) agarose gels following electrophoresis in TAE, TBE, MOPS, or phosphate buffers. Excised gel bands can be digested in the above-mentioned buffers, or for higher activity, GELase Buffer may be added to or exchanged with those buffers.

Applications:

Recover high molecular weight nucleic acids from low melting point (LMP) agarose gels for use in:

- Preparation of YAC, BAC, cosmid, and plasmid vectors
- Subcloning from YACs, BACs, and cosmids
- Microinjection
- Size selection of genomic DNA for subsequent cloning
- Restriction mapping
- PCR

For more information, please visit our website at www.epicentre.com/catalog/gelase.htm

Benefits:

- Gentle procedure - purify multi-megabase DNA that is intact and biologically active.
- Recoveries of DNA consistently approach 100%
- Protocol requires minimal hands-on time.
- High activity - GELase Preparation is more active than other gel-digesting enzymes.
- Cost effective - GELase is priced well below spin column or other gel-digesting methods.

GELase™ Agarose Gel-Digesting Preparation

1 U/ul

G09050-F73	50 U*
G09100-F73	100 U*
G09200-F73	200 U*

Includes GELase™ 50X Reaction Buffer

*Note: One unit of GELase Preparation equals three or more units of most other gel-digesting enzymes.

EXONUCLEASE I

Highest Activity, Available Now!

Exonuclease I specifically digests *single-stranded* DNA in a 3'-5' direction and is active under a variety of buffer conditions. Add Exonuclease I directly to your reaction mix. Incubate 30 minutes to completely digest the single stranded DNA and oligonucleotides. Then, the enzyme can be inactivated by heating at 80°C for 15 minutes. Exonuclease I is tested to be free of RNase, endonuclease and double-strand exonuclease activities.

Application

- Removal of residual single stranded DNA and oligo nucleotides from reactions and nucleic acid preparations.

Exonuclease I

X40501K-F73	1000 U	20 U/μl
X40505K-F73	5000 U	20 U/μl
X40520K-F73	20,000 U	20 U/μl

For more information, please visit our website at www.epicentre.com/catalog/exo1.htm

Figure. Specificity of Exonuclease I (Exo I) for single strand DNA.

200 ng of *Eco* RI-linearized pUC19 DNA and 100 μg of a 100-mer single strand oligo nucleotide were mixed and incubated at 37°C for 20 minutes in the presence and absence of 10 U of Exo I. Lane 1, molecular weight markers; Lane 2, minus Exo I treatment; Lane 3, plus Exo I treatment. Exonuclease I completely digested the linear single-stranded oligo nucleotide while leaving the linear double-stranded plasmid DNA intact.

