

Double Digestion and Dephosphorylation of Plasmid

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1 Works for me dx.doi.org/10.17504/protocols.io.79phr5n



Mix the following components gently:

Components	ng/μL
Plasmid DNA Tube X	
Component	Volume (µL)
Sterile MilliQ Water	Fill up to 30.0 µl
10x FastDigest Buffer	3.0
Plasmid DNA	Total ng of DNA/Plasmid DNA concentration ng/µl
FastDigest Enzyme 1	1.0
FastDigest Enzyme 2	1.0
FastAP Alkaline Phosphatase	1.0
Total Volume	30.0
Total ng of DNA	1000.0

2 Incubate at enzyme suitable conditions ③ 00:30:00 - ⑤ 01:00:00 and temperature



3 Inactivate the enzymes at suitable conditions and temperature



4 Run gel at 80-150 V until the dye line is approximately 75-80% of the way down the gel. A typical run time is about 1-1.5 hours, depending on the gel concentration and voltage.

- 5 Cut out digested band (~150 mg) and transfer to pre-weighed tube. Check weight.
- 6 Purify the band

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