

Shrimp Alkaline Phosphatase

Amersham #E70092

(paraphrased from their little product insert)

SAP is better than calf intestinal phosphatase and has the unique property of being completely inactivated by 65C when in Tris buffers at pH 8-8.5 for 15 min. It is active in NaCl from 10 to 150 mM and in KCl from 20 to 100 mM. SAP is active in virtually all restriction enzyme buffers and can be added directly during the enzyme digest.

Minimum Recommended Units to use per pmole of DNA termini. Note how different ends have different sensitivity to enzyme. It may be prudent to use more enzyme under some circumstances. Should use about a 60 min treatment. Longer than 2 hr is not recommended

(note: 1 pmol of DNA ~ 2.5 ug of a 3 kb plasmid)

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|-------------|-----------|
| Terminus | |
| 5' overhang | 0.1 units |
| blunt | 0.2 units |
| 3' overhang | 0.5 units |