

### PCR CLEAN UP:

**Single Stranded Templates:** QIAGEN QIAprep Spin M13 Kit  
ABI ThermoMAX High-Throughput Procedure  
ABI PEG Precipitation with Phenol Extraction

**Plasmid DNA Templates:** ABI Prism Plasmid Miniprep Kit  
Cesium Chloride (CsCl) Banding  
ABI Modified Alkaline Lysis/PEG Precipitation  
Genra Systems PureGene DNA Isolation Kit  
QIAGEN Plasmid Kits (mini, midi, maxi)

**PCR Product:** Centricon – 100 Columns  
QIAGEN QIAquick PCR Purification Kits (100bp-10 kpb)  
QIAGEN QIAquick Gel Extraction Kits (70bp-10kbp)  
QIAGEN QIAEX II Gel Extraction Kits (>10kbp)  
Shrimp Alkaline Phosphatase and Exonuclease I Treatment  
(Werle *et al.*, 1994)  
E.Z.N.A. Cycle-Pure Kit

### SEQUENCING CLEAN UP:

**Sequencing PCR Templates:** Princeton Separations Centri-Sep Spin Columns  
(Big Dye Only) Edge Biosystems 96-well Gel Filtration Block  
Millipore Multiscreen 96-well Filter Plates  
ABI Isopropanol Precipitation  
ABI Ethanol Precipitation  
ABI Ethanol/Sodium Acetate Precipitation  
ABI Ethanol/MgCl<sub>2</sub> Precipitation  
Shrimp Alkaline Phosphatase Digestion  
QIAGEN DyeEx 2.0 Spin Kit  
E.Z.N.A. Ultra-Sep Dye Terminator Removal Kit

### RECOMMENDED DNA QUANTITY:

Measure absorbance at 260nm

PCR Product Template:	Recommended DNA Quantity with 0.8pmol/μL primer:
100 – 200 bp	1-3 ng
200 – 500 bp	3-10 ng
500-1000 bp	5-20 ng
1000-2000 bp	10-40 ng
>2000 bp	40-100 ng
Single-Stranded	50-100 ng
Double-Stranded	200-500 ng
Cosmid, BAC	0.5-1.0 ug