

Guidelines For Use of Robertson Lab Recombinant Taq Polymerase

- Taq is stored in small concentrated aliquots in Box O11 in the equipment room -140.
- This enzyme appears to be more sensitive to long term storage at -20 than commercially available enzymes. Care should therefore be taken to not dilute more than you plan on using within the next week or so.
- 1 ul of a 1:5 dilution appears to be a suitable amount for most 50 ul reactions.
- Dilute in Taq Storage Buffer:
 - 50 mM Tris HCl pH 7.9
 - 50 mM KCl
 - .1 mM EDTA
 - 1 mM DTT
 - 50% Glycerol
 - 1mg/ml BSA
- Several aliquots of this buffer have been stored in the same box (O11) as the enzyme. Please replenish as needed.
- Attached is the protocol for growth and isolation of the recombinant Taq when this batch is exhausted.

10x PCR buffer:

.5M Heps

.5M KCl

pH 7.9 - sterilize by autoclave