



## Top 10 Reasons to Use Ammonium Salts

1. Self-buffering (pH ~ 7.6)
2. "Soft Cation"
3. Nucleotides of ammonium salts are active with polymerases, synthetases, and phosphatases.
4. Volatile counter-ion
5. The ammonium cation can be easily exchanged using DOWEX cation exchange resin
6. The pH does not change during drying of the nucleotide (*i.e.* "speed-vac," lyophilize)
7. Stoichiometry between the counter-ion and the nucleotide is preserved
8. Routinely compatible in down-stream syntheses
9. Compatible in a variety of down-stream chromatography applications
10. Tested to be comparable in side-by-side *in vitro* transcription reactions!