

Activation of Sodium Orthovanadate

NOTE: Activation depolymerizes the vanadate, converting it to a more potent inhibitor of protein tyrosine phosphatases. See Gordon J (1991) *Methods Enzymol* **201**:477-82.

1. Make Sodium orthovanadate to 200mM in ddH₂O.
2. Adjust pH to 10.0 with 1M NaOH or 1M HCl (the starting pH varies depending on the lot). At pH 10.0 the solution is a yellow color.
3. Boil the solution until it turns colorless (about 10 mins).
4. Allow solution to cool to room temperature.
5. Readjust pH to 10.0 and repeat steps 3 & 4 until the solution remains colorless and the pH stabilizes at 10.0. Store in aliquots @ -20°C.