

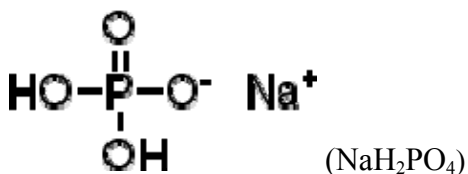


## Certificate of Analysis

CP-Buffer-41

AxyGen's ready to use buffers, precipitants, salts, additives, and detergents provide the most complete and economical solution to crystallization of proteins, peptides, small molecules and nucleic acids. They can be used as a rapid Initial screening method or to accelerate the creation of optimization/follow up screens. Reagents are supplied in sterile bottles (200ml/bottle).

**Product Name:** 1.0M Na-K-Phosphate, pH 6.5  
**Description:** Na-Phosphate (NaH<sub>2</sub>PO<sub>4</sub>) titrated with K-Phosphate (K<sub>2</sub>HPO<sub>4</sub>)  
**Catalog #:** CP-Buffer-41  
**Chemical Name:** Monosodium phosphate and Dipotassium hydrogenphosphate  
**Molecular Formula:** NaH<sub>2</sub>PO<sub>4</sub> and K<sub>2</sub>HPO<sub>4</sub>  
**Molecular Weight:** 119.98 (NaH<sub>2</sub>PO<sub>4</sub>) and 174.18 (K<sub>2</sub>HPO<sub>4</sub>)  
**CAS Number:** [7558-80-7](#) (NaH<sub>2</sub>PO<sub>4</sub>) and [7758-11-4](#) (K<sub>2</sub>HPO<sub>4</sub>)  
**EC Number:** 2314492 (NaH<sub>2</sub>PO<sub>4</sub>) and 2318345 (K<sub>2</sub>HPO<sub>4</sub>)  
**Purity:** ≥99% (NaH<sub>2</sub>PO<sub>4</sub>) and 98% (K<sub>2</sub>HPO<sub>4</sub>)  
**Appearance:** Both are white powders  
**Solubility:** Complete colorless solution at 1M  
**pKa (25 °C) for (K<sub>2</sub>HPO<sub>4</sub>):** (1) 2.15, (2) 6.82, (3) 12.38 (phosphoric acid)



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