1st Database: ACS Journals

Keywords: Alkaline Phosphatase, Alkaline Phosphatase AND Kinetics

M. Gottesman, R. Simpson, B. Vallee. **Kinetic properties of cobalt alkaline phosphatase. (**1969) Vol 8. Iss 9. Pp 3776-3783

This article describes use of an alkaline phosphatase complexed with cobalt, instead of the native zinc metal, to explore the metal’s role in the enzymatic activity of alkaline phosphatase. Spectrophotometric assays were used to asses purity of the products and analyze the reaction itself.

Many articles similar to the one described above were found with the second keyword search. The first keyword returned articles mostly related to the structure of alkaline phosphatase.

2nd Database: Royal Society of Chemistry

Keywords: Alkaline Phosphatase, Alkaline Phosphatase AND Kinetics, Alkaline Phosphatase AND Spectrophotometry

First keyword search returned results related to alkaline phosphatase in certain biological systems and its use in tracking different processes. The second returned more about actual reactions, but still few related to specific enzymatic activity of alkaline phosphatase.

The first database (ACS Publications) seemed to be more dedicated to a focus of actual chemical reactions and related topics, whereas the second (RSC) returned a lot of chemical analyses used to describe widely varying biological studies. In general, ACS Publications returned better results for this particular search.