

TABLE 2. METAL ION ACTIVATION OF PARTIALLY PURIFIED CORN ALKALINE INORGANIC PYROPHOSPHATASE\*

Cation concentration (mM)	Specific activity for cation (units <sup>†</sup> /mg protein)						
	Mn	Ni	Co	Fe	Zn	Cu	Mg
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.12	0.0	4.0	0.0	11.25	17.25	0.0	0.0
0.30	16.25	4.0	0.0	ppt.‡	0.50	1.75	5.25
0.80	42.25	0.0	14.5	ppt.	0.0	6.25	150
1.80	2.75	0.0	10.5	ppt.	0.0	8.75	548
3.00	ppt.	0.0	0.0	ppt.	ppt.	ppt.	553

\* The metals were used as their chlorides in the standard assay lacking Mg<sup>2+</sup>. The enzyme preparation used was that following DEAE-cellulose column chromatography and dialysis against 1 mM mercapto-ethanol, 50 mM Tris-HCl (pH 8.7). A volume equivalent to 0.26 units of pyrophosphatase activity prior to dialysis was added to each reaction tube.

† 1 unit = 1.0  $\mu$ mole Pi/min.

‡ ppt. = incipient precipitation during incubation.