

Enzymes and Substrates

Enzymes For ELISA

Alkaline Phosphatase

Alkaline phosphatase is purified from calf intestinal mucosa. Activity is 4500 to 6000 DEA Units per mg protein. The enzyme is supplied as a solution in 50% glycerol, containing 5 mM Tris (pH 7.0), 5 mM magnesium chloride and 0.1 mM zinc chloride.

The enzyme has been extensively used in the preparation of immunologicals.

Storage: 4°C. Do not freeze.

Horseradish Peroxidase

Enzyme Peroxidase is purified from horseradish. The preparation is essentially salt free. RZ value is > 3.0. Activity is 200-300 purpurogallin units per mg solid. The enzyme has been extensively used in the preparation of immunologicals.

Storage: Below 0°C.

Ordering Information:

Product	Size	Cat #
ALP	1 mg	105339
	5 mg	105338
HRP	10 mg	105340

Stable Substrates for ELISA

These products are supplied in liquid form and hence the need to weigh and prepare buffers or additional reagents before use is avoided. There is no wastage and every drop can be put to use.

TMB/H₂O₂ - For ELISA

(Tetramethyl benzidine/Hydrogen Peroxide)

TMB is a non-carcinogenic chromogen used in assays involving Horseradish Peroxidase enzyme. TMB/H₂O₂ - for ELISA produces a soluble blue colored product with HRP. The reaction is stopped with H₂SO₄ and the resulting yellow color is read at 450nm. This reagent is supplied at 20X concentration. Dilute 20 fold in distilled water just before use.

Storage: 4°C in dark.

p-NPP System for ELISA

p-NPP system is a ready to use two component liquid system used as substrate for alkaline phosphatase. The required amount can be prepared by mixing the two components. This substrate yields a soluble yellow reaction product with alkaline phosphatase in ELISA that can be read at 405 nm.

p-NPP system contains 10 ml of p-NPP solution and 200 ml of dilution buffer. Working solution is prepared by mixing one part of p-NPP solution with 19 parts of dilution buffer.

Ordering Information:

Product	Size	Cat #
TMB/H ₂ O ₂ for ELISA (20X)	10 ml	106035
pNPPSystem for ELISA	1 Set	106040