SIGMA CHEMICAL COMPANY

Product No. P-7899
Lot 066H8806

Anti-Horseradish Peroxidase

Developed in Rabbit
Fractionated Antiserum

Anti-Horseradish Peroxidase is developed in rabbit using purified peroxidase from horseradish as the immunogen. The fractionation procedure yields primarily the immunoglobulin fraction of antiserum. If necessary, the fractionated antiserum is adsorbed using solid phase techniques. Rabbit Anti-Horseradish Peroxidase is lyophilized from 0.01 M phosphate buffered saline, pH 7.2, with no preservatives added.

Specificity

Antiserum is determined to be immunospecific for horseradish peroxidase by immunoelectrophoresis (IEP), versus purified and crude horseradish peroxidase. The gel is stained with DAB (Diaminobenzidine) to ensure that the antibody does not inhibit the enzymatic activity of the peroxidase.

Identity and Purity

Identity and purity of the antibody is established by immunoelectrophoresis. Electrophoresis of the antibody preparation followed by diffusion versus anti-rabbit IgG and anti-rabbit whole serum results in single arcs of precipitation in the gamma region.

Precipitation Analysis

One milliliter of reconstituted antibody preparation will precipitate 0.25 mg of purified horseradish peroxidase at equivalence.

Protein Concentration:

1. The 1 ml vial contains 30.7 mg protein, by Biuret.
2. The 2 ml vial contains 64.0 mg protein, by Biuret.

Reconstitution and Storage Instructions

Reconstitute by adding 1 ml of water to the 1 ml vial or 2 ml of water to the 2 ml vial. Rotate vial gently until powder dissolves. Prior to reconstitution, store the product at 2-8°C. After reconstitution, the solution may be stored frozen in working aliquots. Repeated freezing and thawing is **not** recommended. If slight turbidity occurs upon prolonged storage clarify the solution by centrifugation before use.