

Product No. A-0409
Anti-Human α -1-Antitrypsin
Developed In Rabbit
IgG Fraction of Antiserum

Lot 082H8836

Antiserum is developed in rabbit using purified human α -1-antitrypsin as the immunogen. To ensure specificity the antiserum is adsorbed, if necessary, using solid phase techniques. Whole antiserum is fractionated and chromatographed by ion exchange chromatography to provide the IgG fraction. The resultant antiserum is lyophilized from 0.01M phosphate buffered saline, pH 7.2, to which no preservatives have been added.

Specificity

Antiserum is determined to be immunospecific for human α -1-antitrypsin by immunoelectrophoresis versus normal human serum and human α -1-antitrypsin.

Identity and Purity

Identity and purity of the antibody is established by immunoelectrophoresis (IEP). 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.

Titer: 1:8

Using a double diffusion assay, in 1% agarose, 5 μ l of serially diluted rabbit anti-human α -1-antitrypsin is reacted against 5 μ l of a 1 mg/ml solution of purified human α -1-antitrypsin (well diameter 3.5mm, well separation, 7.5mm center to center). Titer is equivalent to the highest dilution of antiserum resulting in a visible precipitate after 24 hours incubation.

Protein Concentration: 15 mg/ml by Biuret.

Reconstitution and Storage

To one vial of lyophilized powder add 2ml of deionized water. Rotate vial gently until powder dissolves. Prior to reconstitution store the product at 0-5°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.

Sigma warrants that its products conform to the information contained in this and other Sigma publications. Purchaser must determine the suitability of the products for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Issued 2/92