

## Product Specification Sheet

**Product:** Peroxidase Conjugated IgG fraction of anti-Alanine Transaminase (ALT)\* [Pig Heart] [Sheep]

**Code:** 200-603-206

**Lot #** 7041

**Size:** 20 mg

**Physical State:** Lyophilized

**Antibody Concentration:** 10.0 mg/ml (by UV absorbance at 280 nm)

**Label:** Horseradish Peroxidase (HRP)

**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

**Stabilizer:** 10 mg/ml Bovine Serum Albumin (BSA) IgG and Protease free

**Preservative:** 0.01% (w/v) Gentamicin Sulfate

**Application(s):** Suitable for immunoblotting (western or dot blot), ELISA, immunoperoxidase electron microscopy and immunohistochemistry as well as other peroxidase-antibody based enzymatic assays.

**Recommended Dilution(s):** This product has been assayed against 1.0 µg of Alanine Transaminase (ALT) [Pig Heart] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:3,000 of the reconstitution concentration is suggested for this product. Optimal titers for other applications should be determined by the researcher.

**Storage Conditions:** Store vial at 4° C prior to restoration. Restore with 2.0 ml of deionized water (or equivalent). For extended storage add glycerol to 50% and then aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of restoration.

**Purity and Specificity:** This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Sheep Serum as well as purified and partially purified Alanine Transaminase (ALT) [Pig Heart]. Cross reactivity against Alanine Transaminase (ALT) from other sources is unknown.

**Immunogen:** Alanine Transaminase (ALT) [Pig Heart]

\*ALT is also called Glutamic-Pyruvic Transaminase (GPT)

**Conjugation Reference:** Farr & Nakane, *J. Immunol. Methods* **47**; 129-144. 1981.

**Note:** This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.