



OXFORD BIOMEDICAL RESEARCH

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Product specifications

12-LIPOXYGENASE

Product # LX 12 L Typical Lot

Contents: At least 100 units of partially purified enzyme suspended in 500 μ l of 20mM Tris pH 7.2 containing 0.5 mM EDTA, PMSF, DTT and 15% glycerol.

Protein Concentration: 4.8 mg/mL, MW ~ 75 kD

Source: Porcine leukocytes

Specific Activity: 55 units/mg protein

Definition of unit: One unit is the amount of enzyme that catalyzes the conversion of one nanomole of arachidonic acid to 12-hydroperoxy-eicosotetraenoic acid (12-HPETE) over a five minute incubation at room temperature.

Storage: Stable indefinitely at -70°C . Labile to repeated freeze-thaw cycles.

Reference: Yoshimoto, T., Miyamoto, Y., Ochi, K., Yamamoto, S., *Biochimica et Biophysica Acta*, **713** : 638-646 (1982)