CERTIFICATE of ANALYSIS

5-Lipoxygenase (human, recombinant)

Item No. 60402 • Batch No. 0829051 • Expires 17AUG2027

Overview

Formulation:	100 mM Tris-HCl, pH 8.0, with 5 mM EGTA, 1mM calcium chloride, and 30% glycerol
Concentration:	12.74 mg/mL
Storage/stability:	-80°C/9mo
Specific activity:	51.50 U/mg
Unit definition:	One unit of enzyme consumes one nmol of oxygen per minute at 25°C in 50 mM Tris-HCl buffer, pH 7.5, with100 µM arachidonate, 2 mM calcium chloride, 1 mM ATP, 4.6 µM 13(S)-HpODE, and 250 µM oxygen. 5-Lipoxygenase activity is measured at 25°C by monitoring oxygen consumption using a Gilson Model 5/6 H oxygraph equipped with a Clark oxygen electrode.
Activity:	656.00 U/ml
Purity:	Clarified lysate

Reviewed and approved by: Beth Hurst **Approved date: 18NOV2026**

Elizabeth Hurst

WARNING
THIS PRODUCT IS FOR RESEARCH USE - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE. IT IS THE RESPONSIBILITY OF THE PURCHASER TO DETERMINE SUITABILITY FOR OTHER APPLICATIONS.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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