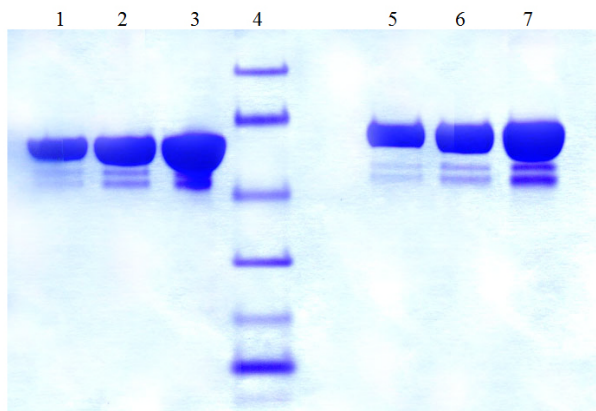


Molecular Innovations, Inc.

46430 Peary Court
Novi, MI 48377
TEL: (248) 896-0142
FAX: (248) 896-0148
<http://www.mol-innov.com>

Certificate of Analysis



4-12% Bis-Tris SDS-PAGE

- 1 Human Erythrocyte Catalase (5 ug, Reduced & Heated)
- 2 Human Erythrocyte Catalase (10 ug, Reduced & Heated)
- 3 Human Erythrocyte Catalase (20 ug, Reduced & Heated)
- 4 LMW Standard (BIO-RAD Cat. No. 161-0304)
- 5 Human Erythrocyte Catalase (5 ug, Non-reduced & Unheated)
- 6 Human Erythrocyte Catalase (10 ug, Non-reduced & Unheated)
- 7 Human Erythrocyte Catalase (20 ug, Non-reduced & Unheated)

Product: Catalase, Human Erythrocyte – HEC

Date: July, 2009

Lot: CT2009-02

Molecular Weight: 244,000 by SDS PAGE

Description:

Prepared from whole blood shown to be non-reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA required tests.

Protein Determination:

Extinction Coefficient (E) 0.1% at 280nm = 1.39
1cm pathway

Protein Concentration:

1.37 mg/ml

Considerations:

Storage Conditions: Store frozen at -70°C – stability > 1yr
Buffer Composition: 0.05M Tris-HCl; pH 8.0
Purity: Greater than 95% by SDS-PAGE.
Specific Activity: Greater than 50,000 units per mg
(One unit is equal to the amount of enzyme that will decompose one micromole of hydrogen peroxide per minute at 25C, pH 7.4)

Duane E. Day

Duane E. Day