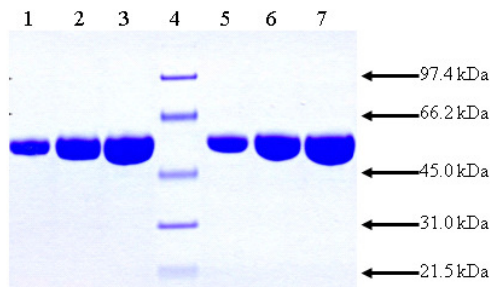


Molecular Innovations, Inc.

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<http://www.mol-innov.com>

Certificate of Analysis



4-12% Bis-Tris-HCl NuPAGE gel

1. A1 Antitrypsin - 5 µg (reduced/ heated)
2. A1 Antitrypsin - 10 µg (reduced/ heated)
3. A1 Antitrypsin - 20 µg (reduced/ heated)
4. LMW Standard (BIO-RAD Cat. No. 161-0304)
5. A1 Antitrypsin - 5 µg (non-reduced/ no heat)
6. A1 Antitrypsin - 10 µg (non-reduced/ no heat)
7. A1 Antitrypsin - 20 µg (non-reduced/ no heat)

Product: Alpha 1 Antitrypsin, Human Plasma

Date: 6 July 2010

Cat: HA1AT

Lot: Sample

Molecular Weight: 52,000

Physical Specifications:

Lyophilized

Protein Determination:

Extinction Coefficient (E) 0.1% at 280nm = 0.433
1cm pathway

Activity:

75-100% inhibitory when tested with active-site titrated porcine pancreatic trypsin using Na-Benzoyl-L-Arginine-para-Nitroanilide Hydrochloride (L-BAPNA) as substrate.

Considerations:

Storage Conditions: Store frozen at -70°C – stability > 1yr
Buffer Composition: 30 mM Na Phosphate, 0.3 M NaCl pH 6.5
Other: > 95% pure by SDS PAGE

Duane E. Day

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