

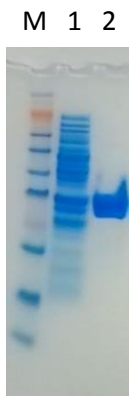
Certificate of Analysis

Product:

SMT3-A1(Cys)TM

Lot No: 150910

Test/Characteristic:	Results:
1. Binding capacity (nmol/ml resin) (Determined by Coomassie Plus assay)	158
2. Specificity (% purity of target) (Determined by densitometry)	>95%
3. SDS-PAGE analysis of pull-down	



SDS-PAGE analysis of affinity purification of antigens from E.coli BL21DE3 whole cell lysates using Nectagen's nanoCLAMPs conjugated to agarose beads. E.coli were lysed with BPER (Thermo), cleared by centrifugation, and diluted with PBS to 1.2 mg total protein/ml. The lysate was spiked with recombinant antigen to 0.1 mg/ml in 1.5 ml and incubated with 10 μ l (packed vol) cross-linked agarose beads conjugated to indicated binders. Beads were washed with PBS and eluted with polyol elution buffer at near neutral pH. Lysates and eluants were analyzed on 12% SDS-PAGE in reducing SDS sample buffer. Lane M: 10 μ l See Blue Plus pre-stained protein marker (Thermo). Lane 1: SMT3-spiked lysate containing 21 μ g total protein. Lane 2: 16 μ l of polyol eluant from the affinity resin, from a total of 81 μ l total elution.

Date of manufacture: 9/10/15
Approval date: 01/27/16

Operator: Richard J. Suderman
 Signature: Richard J. Suderman
 Date: 01/27/16