

# Analytical Characterization of NIST MAb by Hydrophobic Interaction Chromatography (HIC)

Sepax Technologies, Inc.

Proteomix HIC Butyl-NP5, 5um, NP 4.6 x 100 mm  
(PN:431NP5-4610)



[www.sepax-tech.com](http://www.sepax-tech.com)

# NIST MAb on Proteomix HIC Butyl-NP5 – Gradient Optimization

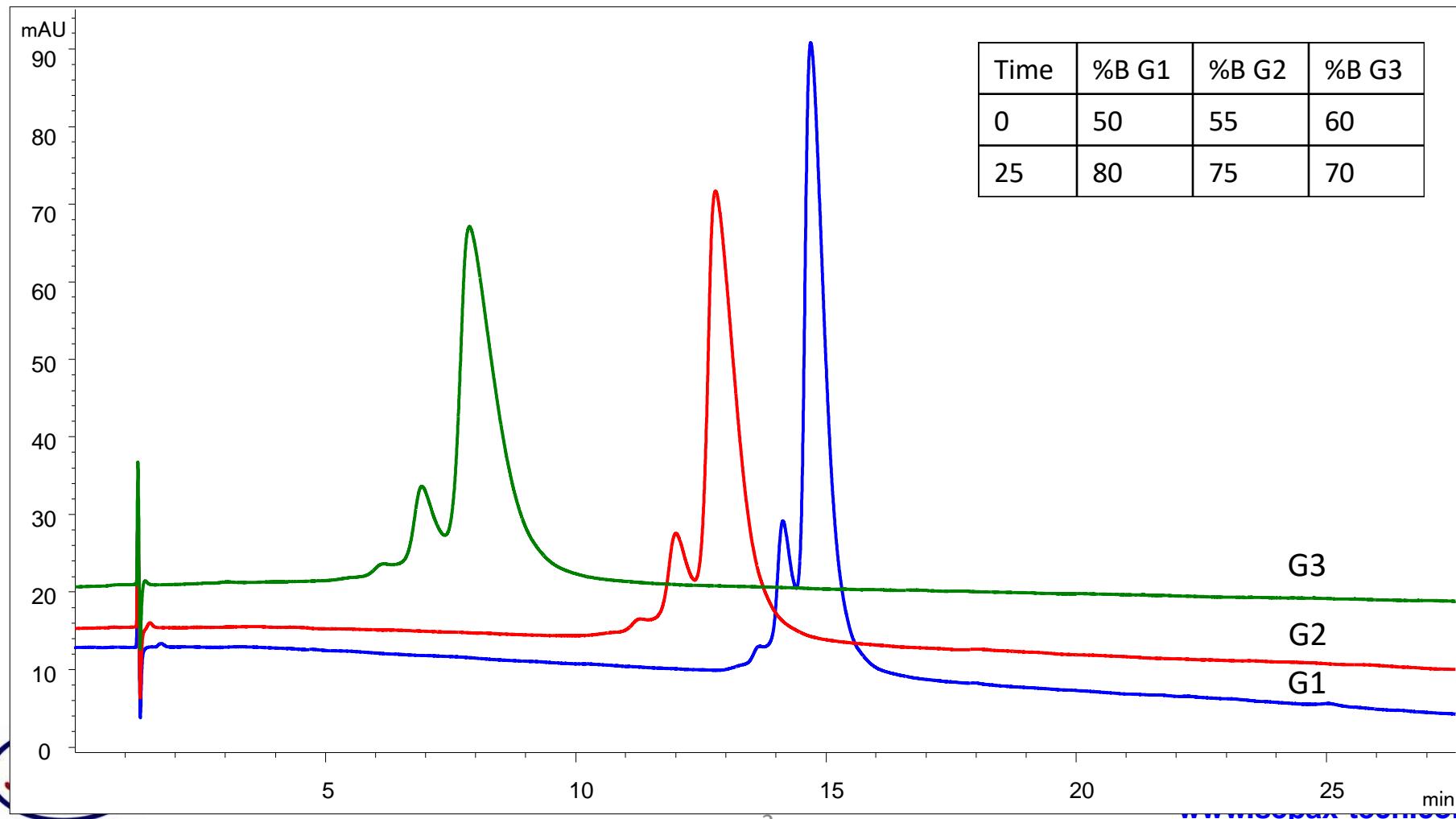
Column: Proteomix HIC Butyl-NP5, 5um, NP 4.6 x 100 mm (PN:431NP5-4610)

Mobile phase: A: 2 M Ammonium Sulfate, in 100 mM Sodium Phosphate pH 7.0,

B: 100 mM Sodium Phosphate pH 7.0

Flow rate: 0.5 mL/min; Detector: UV 280 nm; Column temperature: 30°C

Sample: NIST MAb 10 mg/mL (pI 9.18, in 12.5 mM histidine, pH 6.0), Injection volume: 2 µL



# NIST MAbs on Proteomix HIC Butyl-NP5 – Gradient 2 Zoom In

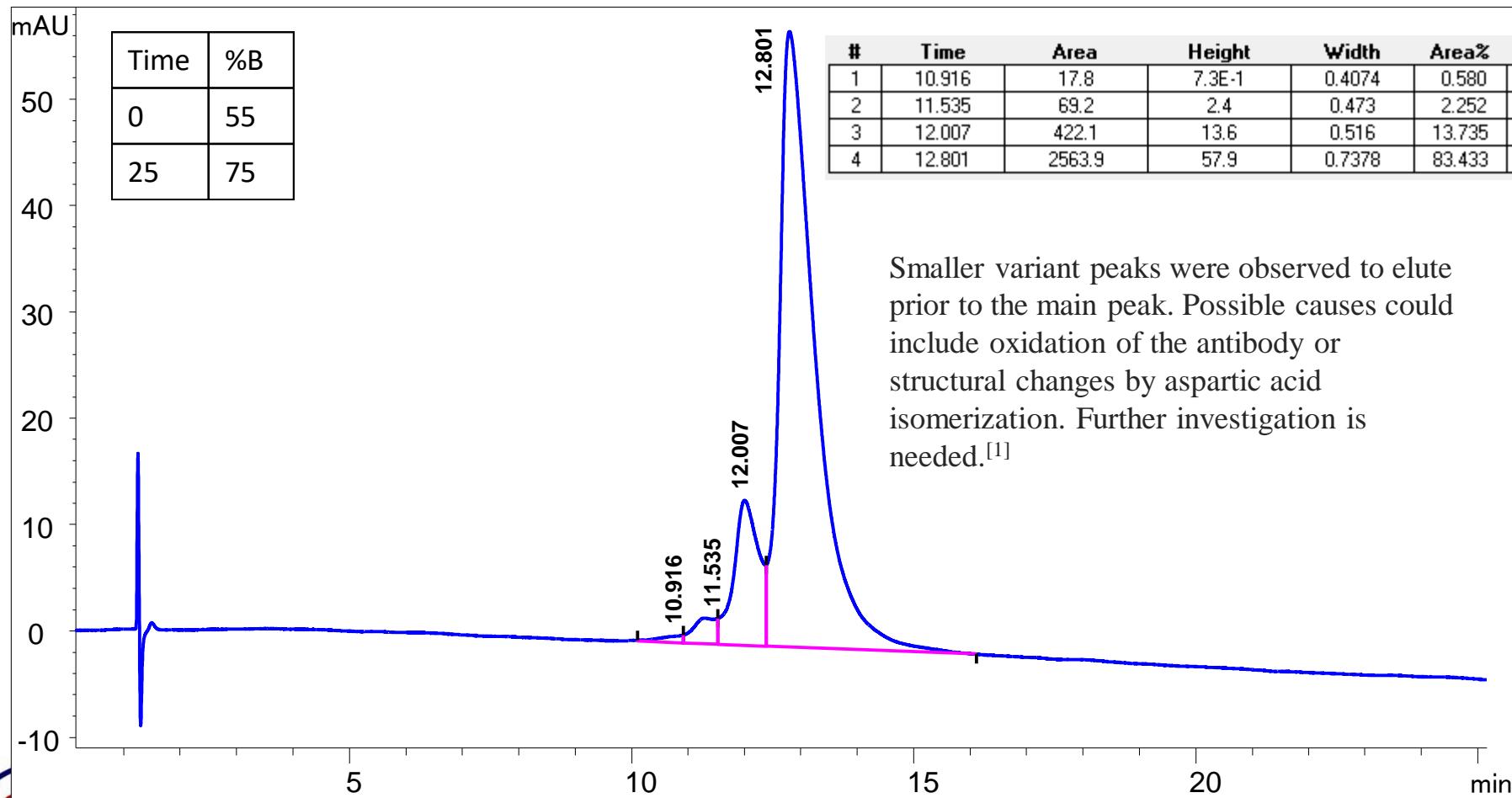
Column: Proteomix HIC Butyl-NP5, 5um, NP 4.6 x 100 mm (PN:431NP5-4610)

Mobile phase: A: 2 M Ammonium Sulfate, in 100 mM Sodium Phosphate pH 7.0,

B: 100 mM Sodium Phosphate pH 7.0

Flow rate: 0.5 mL/min; Detector: UV 280 nm; Column temperature: 30°C

Sample: NIST MAbs 10 mg/mL (pI 9.18, in 12.5 mM histidine, pH 6.0), Injection volume: 2 μL



<sup>[1]</sup> Separation Methods and Orthogonal Techniques

David A. Michels, Anna Y. Ip, Thomas M. Dillon, Kurt Brorson, Scott Lute, Brittany Chavez, Ken M. Prentice, Lowell J. Brady, and Karen J. Miller  
State-of-the-Art and Emerging Technologies for Therapeutic Monoclonal Antibody Characterization Volume 2. Biopharmaceutical Characterization: The NISTMAb Case Study. January 1, 2015, 237-284  
DOI:10.1021/bk-2015-1201.ch005