HPLC Application

ID No.: **16191**

Overlay of PEGylated vs. Native Proteins on Jupiter® 300 C4 Column

Products used in this application:

Column: Jupiter® 5 µm C4 300 Å, LC Column 150 x 4.6 mm, Ea
Dimensions: 150 x 4.6 mm ID
Order No: 00F-4167-E0
Elution Type: Gradient
Eluent A: 0.1% TFA and 2% ACN in Water
Eluent B: 70/20% ACN/IPA, 0.08% TFA in Water

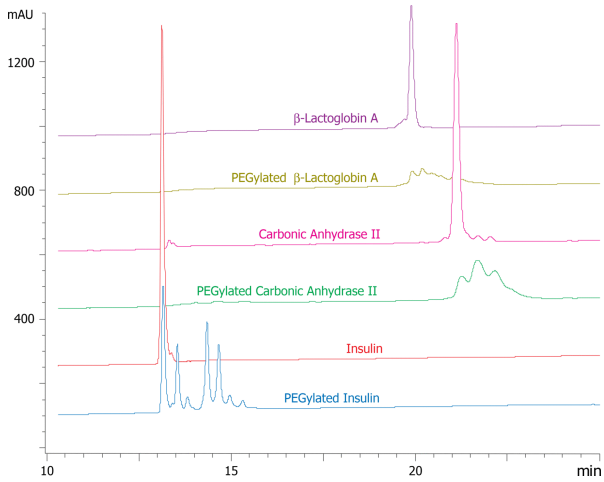
Gradient Profile:

Step No.	Time (min)	Pct A	Pct B
1	0	85	15
2	25	30	70

Flow Rate: 1 mL/min
Col. Temp.: 45 °C
Detection: UV-Vis Abs.-Variable Wave.(UV) @ 214 nm (ambient)
Analyst Note: Application Focus: Using Jupiter 300 C4 for purifying PEGylated proteins.

For many protein therapeutics, a polyethylene glycol (PEG) group is attached to a protein to increase its serum half-life. The addition of such PEG groups to a protein complicates both the characterization and purification of such PEG/protein conjugates away from the "non-PEGylated" protein
As mentioned in App ID# 16198, the PEGylation reaction concurrently occurs rapidly at several different protein sites in a fixed ratio. In every protein tested there was always more than one PEGylated protein peak observed by reversed phase HPLC; each seemingly ascribed to a different

16191



ANALYTES:

1 PEGylated vs. Native Proteins

For more information contact your Phenomenex Representative at support@phenomenex.com

Phenomenex products are available worldwide.