HPLC Application

ID No.: **18072**

Interferon Alpha digests reduced & non-red on Jupiter 3u C18

Products used in this application:

Column: Jupiter® 3 µm C18 300 Å, LC Column 150 x 2 mm, Ea
Dimensions: 150 x 2 mm ID
Order No: 00F-4263-B0
Elution Type: Gradient
Eluent A: 0.1% TFA and 2% Acetonitrile in Water
Eluent B: 0.085% TFA, 90% Acetonitrile in Water

Gradient Profile:

Step No.	Time (min)	Pct A	Pct B
1	0	99	1
2	35	50	50
3	40	20	80

Flow Rate: 0.3 mL/min
Col. Temp.: 25 °C
Detection: UV-Vis Abs.-Diode Array (PDA) @ 214 nm (25 °C)
Analyst Note: Application Focus: Using peptide mapping with Jupiter 300 3u C18 to identify disulfide bonds

Peptide mapping using different proteases is a good analytical method to screen PTMs of therapeutic proteins and is shown on Jupiter 300 3u C18 for a biogeneric alpha interferon. Interferon-alpha is a 19.2 kDa protein containing two disulfide bonds (cys1-cys98; cys29-cys138) and was tryptic

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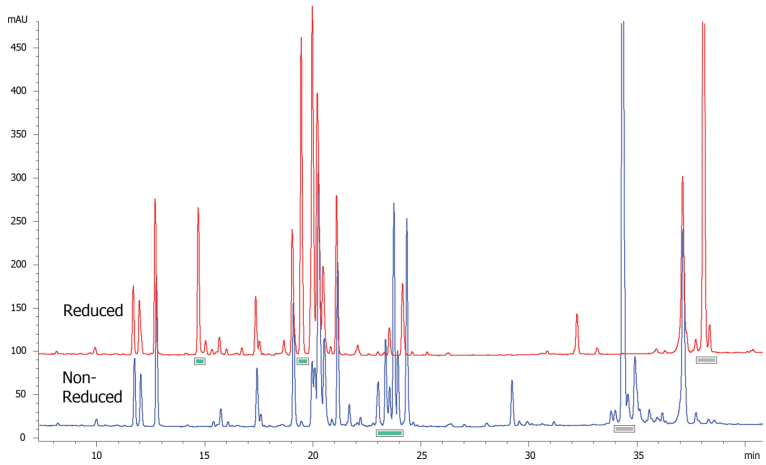

ANALYTES:

1 Reduced Interferon
2 Interferon