HPLC Application

ID No.: **18074**

Interferon Alpha intact & oxidized on Jupiter 3u C18 and Jupiter 5u C4

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	80	20
2	10	20	80
3	15	10	90

Flow Rate: 0.3 mL/min
Col. Temp.: 25 °C
Detection: UV-Vis Abs.-Diode Array (PDA) @ 220 nm (25 °C)

Analyst Note: Application Focus: Using Jupiter 300 media for development of intact biogeneric protein assays for oxidation.

Physical and chemical degradation of therapeutic proteins is a critical problem that can occur during production, purification, and storage. Such modifications can affect protein immunogenicity leading to serious consequences if the protein is being used as a therapeutic. Chromatograms
Overlaid chromatographs of the intact versus oxidized alpha interferon clearly show good selectivity between the two samples; oxidized interferon elutes earlier than the intact protein and has a dramatically tailing peak. While both the C4 and C18 phases both had good resolution, the 3µm C18

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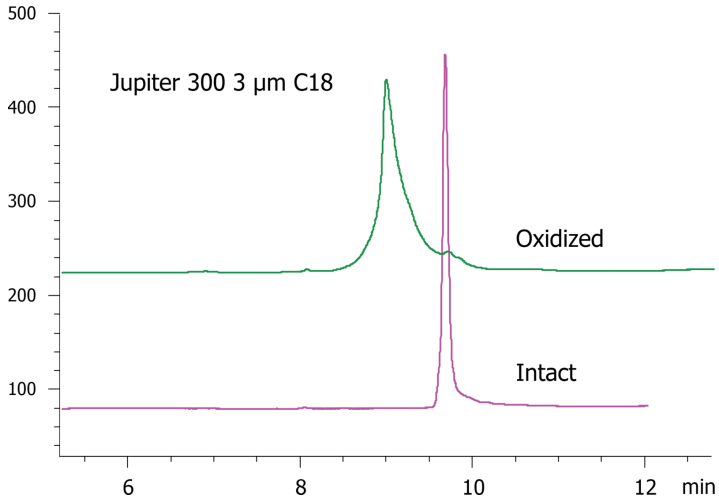

ANALYTES:

1 Intact & Oxidized Interferon

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

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