

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

**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

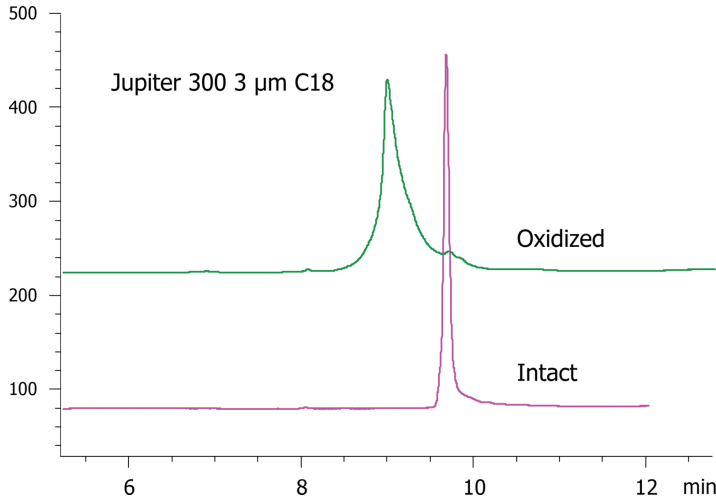
**Col. Temp.:** 25 °C

**Detection:** Refractive Index @ 0.0000000000 (25 °C)

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

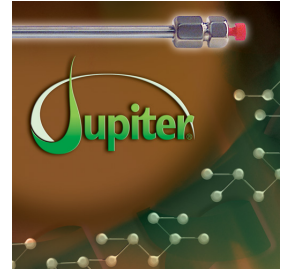
Physical and chemical degradation of therapeutic proteins is a critical problem that can occur during production, purification, and storage. Such modifications can affect protein immunogenicity leading to serious consequences if the protein is being used as a therapeutic. Chromatograms overlaid chromatographs 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

App ID 18074



### ANALYTES:

- 1 Intact & Oxidized Interferon



Products used in this application:

