

# HPLC Application

ID No.: 18072

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

**Column:** Jupiter<sup>®</sup> 3  $\mu$ m 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)

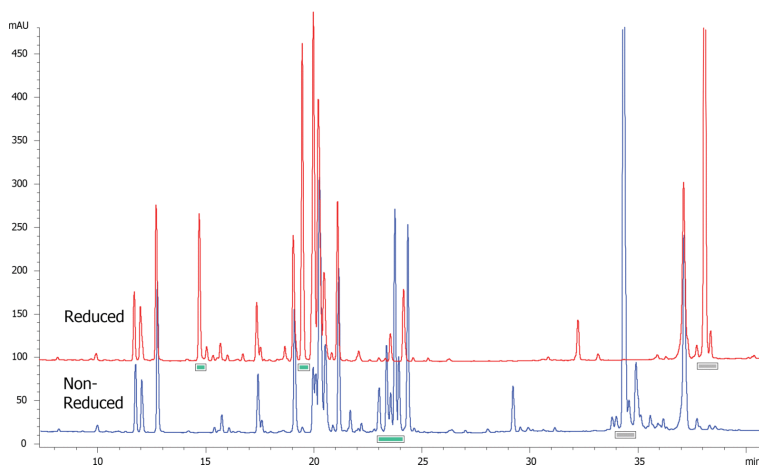
**Analyst Note:** Application Focus: Using peptide mapping with Jupiter 300 3u C18 to identify disulfide bonds

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 biogenic 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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Products used in this application:



### ANALYTES:

- 1 Reduced Interferon
- 2 Interferon

