HPLC Application

ID No.: **14909**

IgG Dog Reduced Jupiter C4 300

Products used in this application:

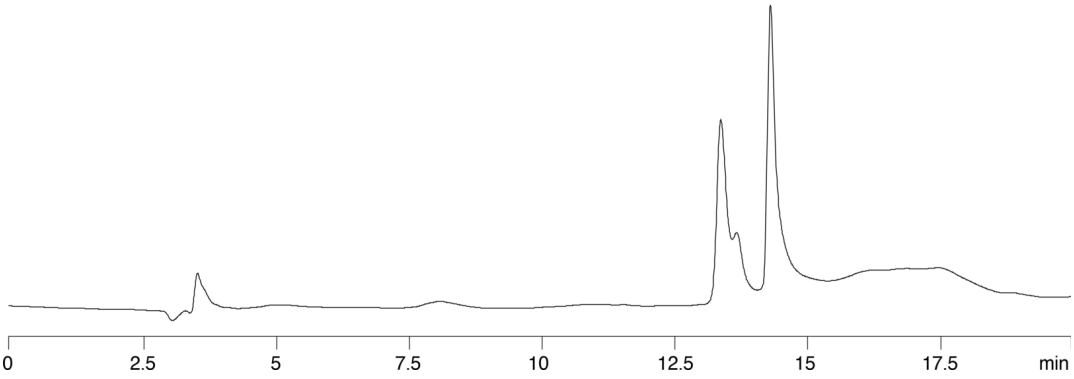
Column:	Jupiter® 5 µm C4 300 Å, LC Column 150 x 2 mm, Ea			
Dimensions:	150 x 2 mm ID			
Order No:	00F-4167-B0			
Elution Type:	Gradient			
Eluent A:	0.1% TFA in Water/Acetonitrile (95:5)			
Eluent B:	0.085%TFA in Acetonitrile/IPA/Water (75:20:5)			
Gradient Profile:	**Step No.**	**Time (min)**	**Pct A**	**Pct B**
	1	0	80	20
	2	20	5	95
Flow Rate:	0.25 mL/min			
Col. Temp.:	ambient			
Detection:	UV-Vis Abs.-Diode Array (PDA) @ 220 nm (ambient)			

Analyst Note: Application Focus: Reducing antibodies to separate heavy and light chains by Jupiter C4

While using IPA in the organic mobile phase can help improve the chromatography of Ig-G, often the best way to observe changes in immunoglobins is by reducing the proteins and separating the heavy and light chain of the protein and analyzing them by HPLC on a Jupiter C4

In this example dog Ig-G was reduced with dithiothreitol and injected on a Jupiter 300 C4 column. As shown in App ID# 14909, one can see the heavy and light chains are baseline resolved using the conditions discussed in length in App ID#14908 (20% IPA in the organic mobile phase and

14909



ANALYTES:

1 IgG

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