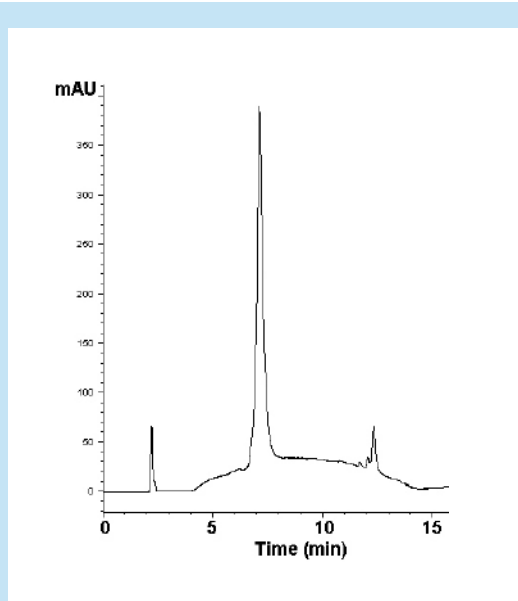


Glycoprotein: Human Plasma



Notes:

Many genetic disorders can be diagnosed by analysis of serum glycoproteins. The analysis has a potential of finding new biomarkers. In addition the concentration of glycoproteins in plasma can vary considerably as a response to various stressful events, for example surgery.

Method Conditions

Column: Cogent Bidentate C8 300™ 5µm, 300Å.
Catalog No.: 40008-75P-3M
Dimensions: 4.6 x 75 mm
Solvents: A: DI water + 0.1% trifluoroacetic acid (TFA)
 B: acetonitrile + 0.1% TFA

Gradient:	Time (min)	%B
	0.0	15
	10.0	100
	20.0	100
	21.0	15

Post Tme: 5 min
Flow Rate: 0.5 mL/min.
Sample Peak: a2-hs-glycoprotein, human plasma, lot #074K16644. 1 mg/mL in DI water.
Detection: UV 214 nm
Injection: 1 microL

Discussion

Using the method in this note, a typical chromatogram of a solution of human plasma glycoprotein is obtained. The elution times for this glycoprotein were between 7.25 and 7.35 min, with any day-to-day variations occurring within these times. Confusion of the a2-hs-glycoprotein with other plasma proteins is minimal since the major plasma protein (HSA – human serum albumin) is usually removed before HPLC analysis in a precipitation step.

The method presented is generic and it is suitable for analysis of a2-hs-glycoprotein and other glycoproteins in physiological fluids

For more information visit www.MTC-USA.com

Cat. No.	Description
40008-75P-3M	Cogent Bidentate C8 column for Macro Molecules, 300A, 5µm, 4.6x75mm