

APPLICATIONS

Simple Sugars Analysis from Soft Drinks using Luna[®] Omega SUGAR LC Columns

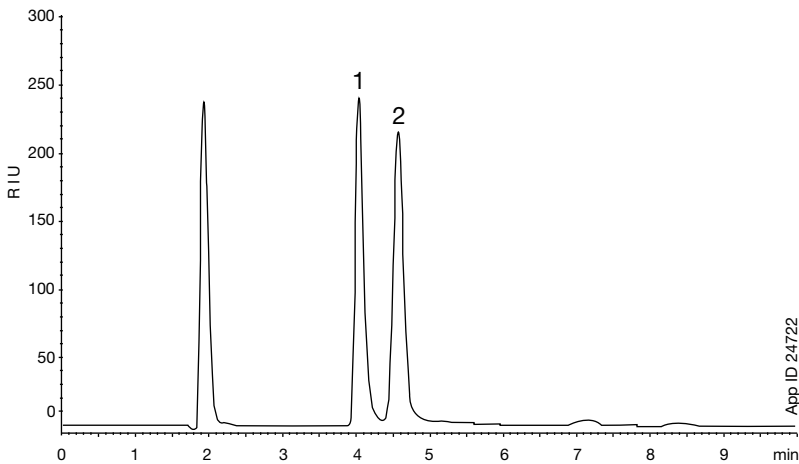
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Overview

Simple sugars are the smallest and simplest carbohydrates found in many food products, especially soft drinks. Sugar analysis is critical to food quality as well as labeling requirements for nutritional content. Developed below, using the Luna Omega 3 μ m SUGAR LC column, is the separation of simple sugars from various cola products, producing excellent separation of glucose and fructose.



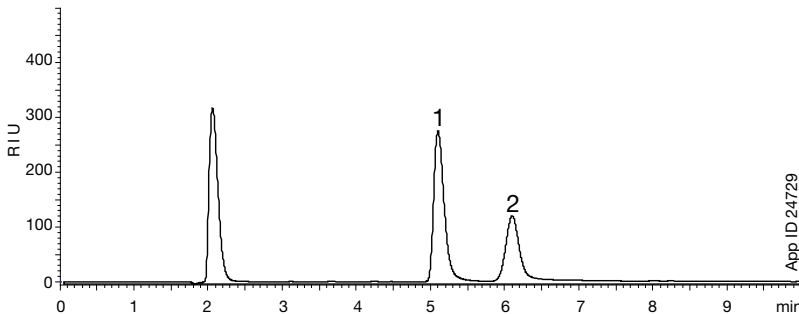
Grape Soda



LC-RI Conditions for Grape Soda

Column: Luna Omega 3 μ m SUGAR
Dimensions: 150 x 4.6 mm
Part No.: 00F-4775-E0
Mobile Phase: Acetonitrile/Water (75:25)
Flow Rate: 1 mL/min
Injection Volume: 5 μ L
Temperature: 40 $^{\circ}$ C
Detection: RI (ambient)
Sample: 1. Fructose
2. Glucose

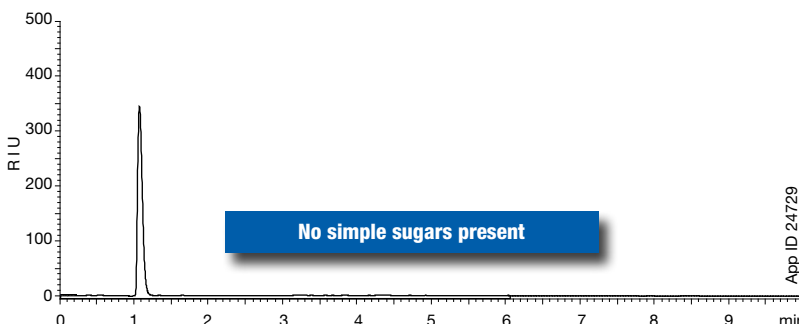
Regular Cola



LC-RI Conditions for Cola

Column: Luna Omega 3 μ m SUGAR
Dimensions: 150 x 4.6 mm
Part No.: 00F-4775-E0
Mobile Phase: Acetonitrile/Water (80:20)
Flow Rate: 1 mL/min
Injection Volume: 5 μ L
Temperature: 40 $^{\circ}$ C
Detection: RI (ambient)
Sample: 1. Fructose
2. Glucose

Diet Cola



Luna® Omega Sugar Ordering Information

3 µm Minibore Columns (mm)				SecurityGuard™ Cartridges (mm)
Phases	50 x 2.1	100 x 2.1	150 x 2.1	4 x 2.0*
				/10pk
SUGAR	00B-4775-AN	00D-4775-AN	00F-4775-AN	AJ0-4496
				for ID: 2.0-3.0 mm

3 µm MidBore™ Columns (mm)		SecurityGuard Cartridges (mm)
Phases	150 x 3.0	4 x 2.0*
		/10pk
SUGAR	00F-4775-Y0	AJ0-4496
		for ID: 2.0-3.0 mm

3 µm Analytical Columns (mm)				SecurityGuard Cartridges (mm)
Phases	100 x 4.6	150 x 4.6	250 x 4.6	4 x 3.0*
				/10pk
SUGAR	00D-4775-E0	00F-4775-E0	00G-4775-E0	AJ0-4495
				for ID: 3.2-8.0 mm

*SecurityGuard Standard Analytical Cartridges require holder, Part No.: KJ0-4282

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Trademarks

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SecurityGuard is patented by Phenomenex. U.S. Patent No. 6,162,362.

CAUTION: this patent only applies to the analytical-sized guard cartridge holder, and does not apply to SemiPrep, PREP or ULTRA holders, or to any cartridges.

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