

APPLICATIONS

Simple Sugars Analysis from Wine by LC-RI using Luna[®] Omega SUGAR LC Columns

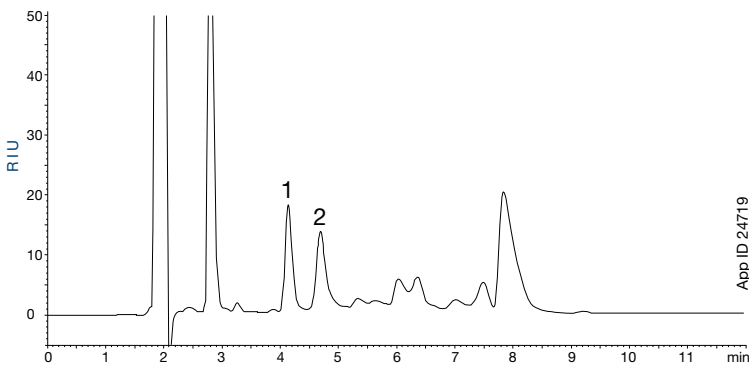
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Overview

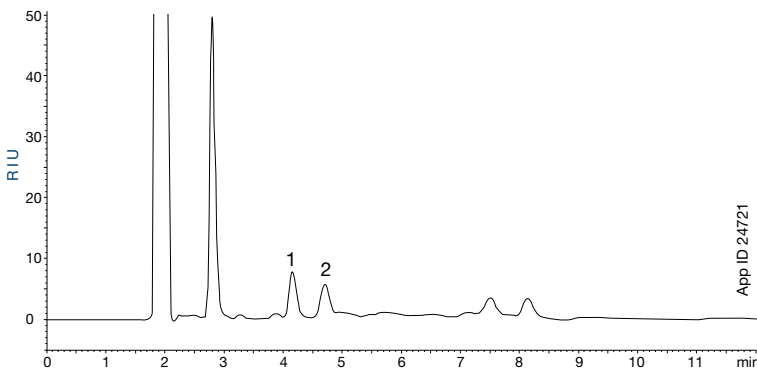
Sugar analysis, especially for glucose and fructose, is an effective and important step for wine makers to manage the fermentation process in wine production. Full resolution between fructose and glucose can ensure accurate results. Developed below, using the Luna Omega 3 μ m SUGAR LC column, is the separation of simple sugars from red, white and dessert wine, producing excellent separation of glucose and fructose leading to more accurate quantitation for effective fermentation monitoring.



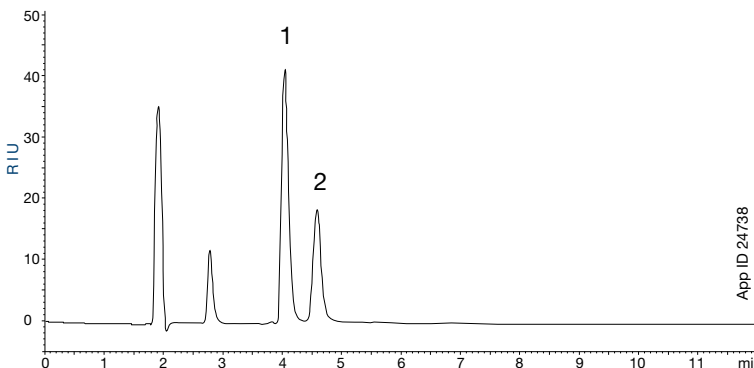
Red Wine (Merlot)



White Wine



Dessert Wine



LC-RI Conditions

Conditions for all Samples:

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: 7.5 μ L
Temperature: 40 $^{\circ}$ C
Detection: RI (ambient)
Sample: 1. Fructose
 2. Glucose

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*
SUGAR	00B-4775-AN	00D-4775-AN	00F-4775-AN	A J0-4496 for ID: 2.0-3.0 mm

3 µm MidBore [™] Columns (mm)		SecurityGuard [™] Cartridges (mm)
Phases	150 x 3.0	4 x 2.0*
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*
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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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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