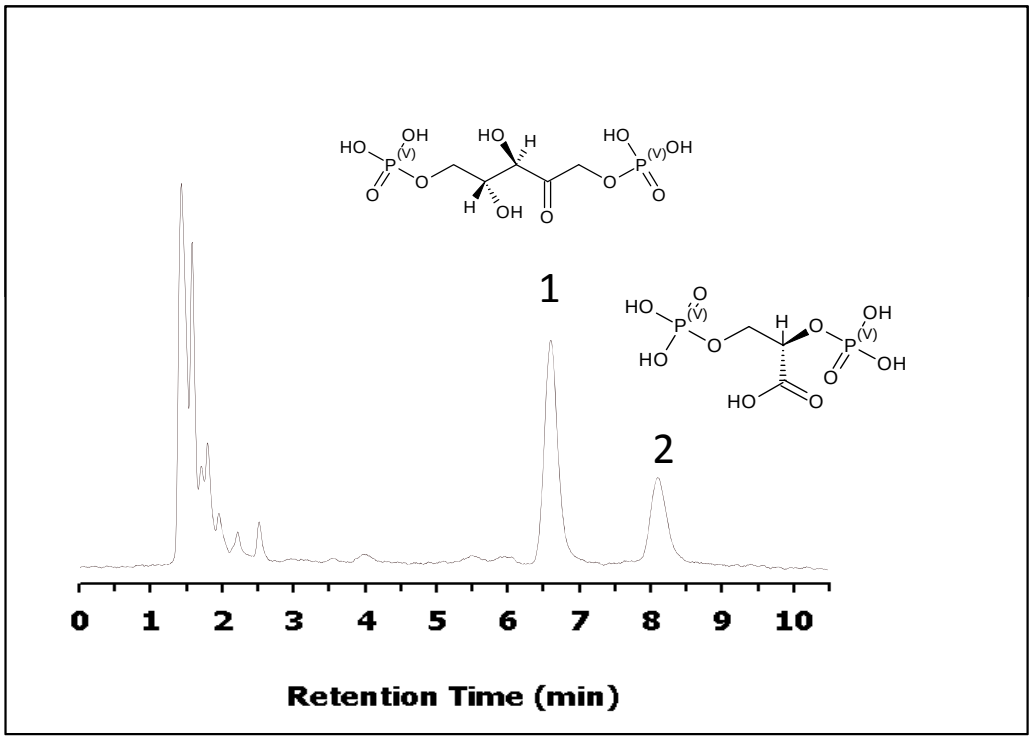
ZIC®-HILIC Separation of Sugar Phosphates

Chromatographic Conditions

Column:	ZIC®-HILIC, PEEK 150 x 4.6 mm, 5 µm, 200 Å (P/N 150455)
Injection:	1 µL injection of a standard solution diluted in in acetonitrile/water (60:40) 1: D-Ribulose 1,5-bisphosphate sodium salt 0.07%(w/v) 2: 2,3-Diphospho-D-glyceric acid penta sodium salt 0.15%(w/v)
Detection:	UV @ 210 nm (UFS 1.0 V)
Column Temperature:	40 °C
Flow Rate:	1.0 mL/min
Mobile Phase (v/v):	Acetonitrile/ 40 mM Potassium phosphate pH 3.0 (65:35 v/v) (total ionic strength 14 mM)



Chromatographic Data

No.	Compound		Time (min)	Retention factor
	t_0	void volume	1.5	-
1		D-Ribulose 1,5-bisphosphate	6.7	3.5
2		2,3-Diphospho-D-glyceric acid	8.2	4.5

Data kindly provided by Dr Norikazu Nagae, ChromaNik Technologies Inc., Japan

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