

# Acarbose Analysis by COSMOSIL Sugar-D

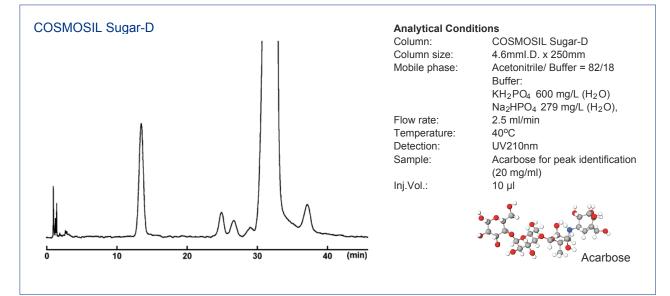
## **Technical Note**

## Acarbose Analysis

Acarbose is used to treat type 2 diabetes. A recent study shows efficacy and tolerability of acarbose in patients with type 2 diabetes.

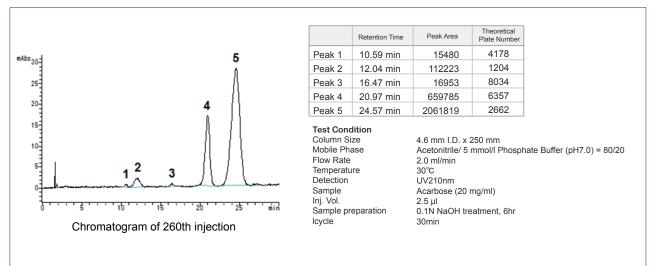
By using COSOMSIL Sugar-D, which is designed for saccharide analysis, high-resolution separation of Acarbose and its impurities was obtained. Furthermore, COSMOSIL Sugar-D was more durable than the conventional NH<sub>2</sub> column.





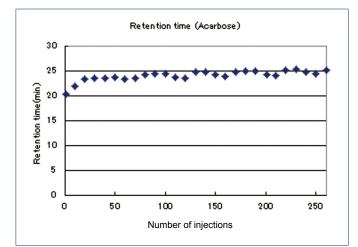
### Durability

COSMOSIL Sugar-D column showed excellent stability and durability with acarbose analysis. After 260 injections, the retention time, pressure, theoretical plates and separation were nearly identical to 1st injection. COSMOSIL Sugar-D can increase the efficiency of acarbose analysis and reduce analysis cost.





#### Retention Time (Peak 5)

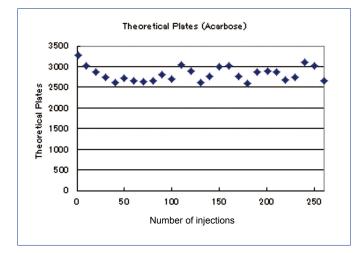


#### Pressure 14 12 10 Pressure (MPa) 8 6 4 2 0 0 50 100 150 200 250 Number of injections

Pressure

Separation

#### Theoretical plate number (Peak 5)



### Ordering Information

Product Name	Column Size	Product Number	Product Name	Column Size	Product Number
COSMOSIL Sugar-D Packed Column	2.0 mm I.D. x 250 mm	05689-31	COSMOSIL Sugar-D Guard Column	4.6 mm I.D. x 10 mm	05394-81
	3.0 mm I.D. x 150 mm	05690-91		10.0 mm I.D. x 20 mm	05696-31
	3.0 mm I.D. x 250 mm	05691-81		20.0 mm I.D. x 50 mm	05694-51
	4.6 mm I.D. x 150 mm	05395-71			
	4.6 mm I.D. x 250 mm	05397-51			
	10.0 mm I.D. x 250 mm	05692-71			
	20.0 mm I.D. x 250 mm	05693-61			

Other size may be available. Please enquire.

For research use only, not intended for diagnostic or drug use.

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0.90 \*\*\*\*\*\*\*\*\*\*\* 0.85 tr/tr (Peak 4/ Peak5) 0.80 0.75 0.70 0.65 0.60 50 100 150 200 0 250 Number of injections

Separation

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