

# << Develosil Column >>

## TEST REPORT

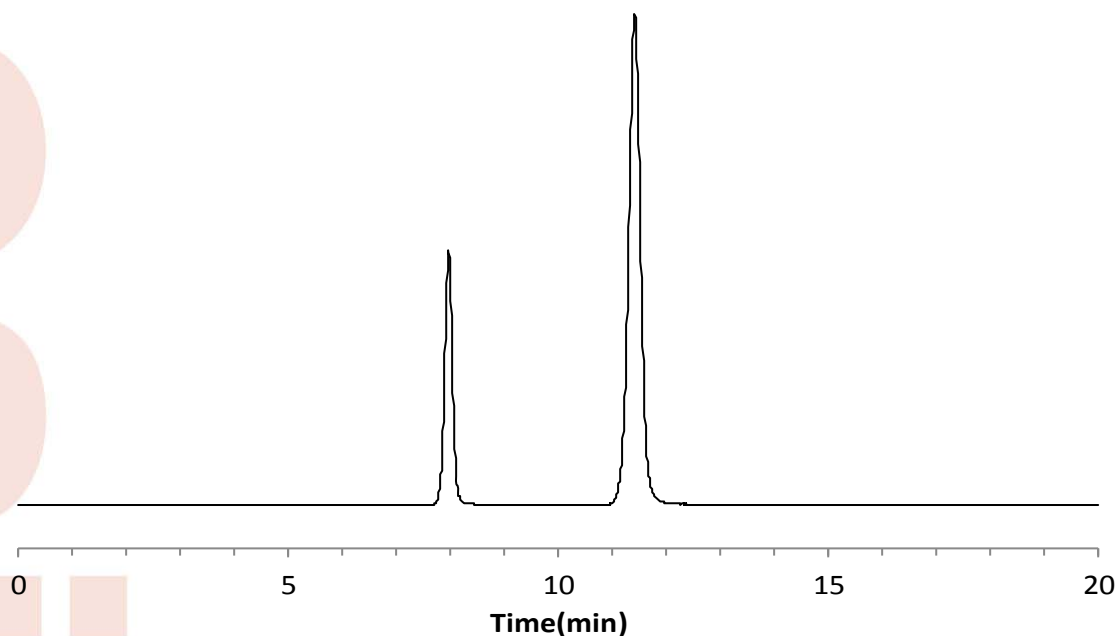
Packings	Develosil	100Diol, 5 μm	Batch No.	250316
Column size	Inner diameter	4.6 mm	Length	250 mm
End fitting type	NW			
Mfg. No.	02071802-DS			

### Operating conditions

Mobile phase	:	Acetonitrile:water=30:70
Flow rate	:	0.5 mL/min
Column temp.	:	30 °C
Pressure	:	3.4 MPa
Detection	:	UV 254 nm

### Sample (Order of elution)

- 1 Benzene
- 2 Naphthalene



Theoretical plate

(Last peak)  $5.54 \times (t_R/W_{0.5})^2 = 13476$

Mobile phase at shipment: Acetonitrile:water=30:70

# Certificate of Analysis

Develosil 100Diol-5

Batch # 250316

## Analytical Results for Develosil 100Diol-5

Analysis of Unbonded Silica Gel		Result
Median Particle Size	[ $\mu\text{m}$ ]	<b>5.09</b>
Surface Area	[ $\text{m}^2/\text{g}$ ]	<b>351</b>
Pore Volume	[ $\text{ml}/\text{g}$ ]	<b>1.06</b>
Median Pore Diameter	[ $\text{nm}$ ]	<b>10.94</b>

※Median Particle Size was measured using Coulter Multisizer III, and Surface Area, Pore Volume and Median Pore Diameter were measured using Coulter SA3100.

## Analysis of Develosil 100Diol-5

Total carbon	[%]	<b>12.9</b>
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## Chromatographic Results for Develosil 100Diol-5

Analyte	Parameter	Specification	Result
BSA	Recovery	90<	90

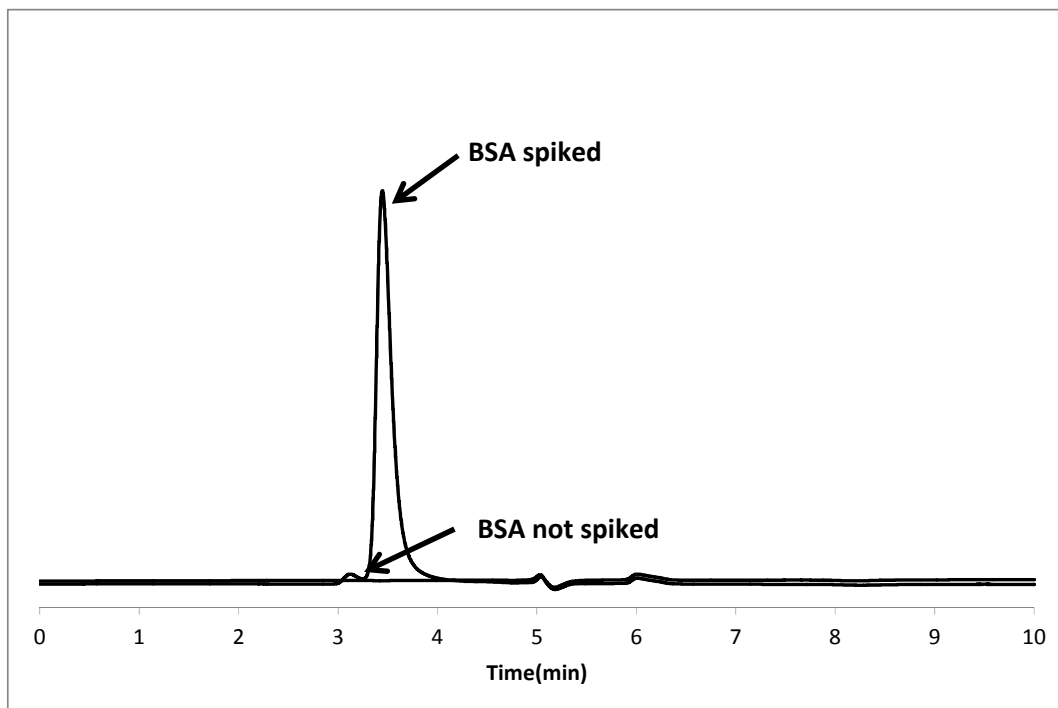


Fig. Chromatogram for BSA solution by HPLC

### Analytical conditions

Column: Develosil 100Diol-5 (4.6x250mm)  
 Mobile phase: 150mM Ammonium Phosphate(pH7.0)  
 Flow rate: 0.5ml/min  
 Wave length: 220nm  
 Sample: BSA  
 Injection volume: 20uL