

<< Develosil Column >>

TEST REPORT

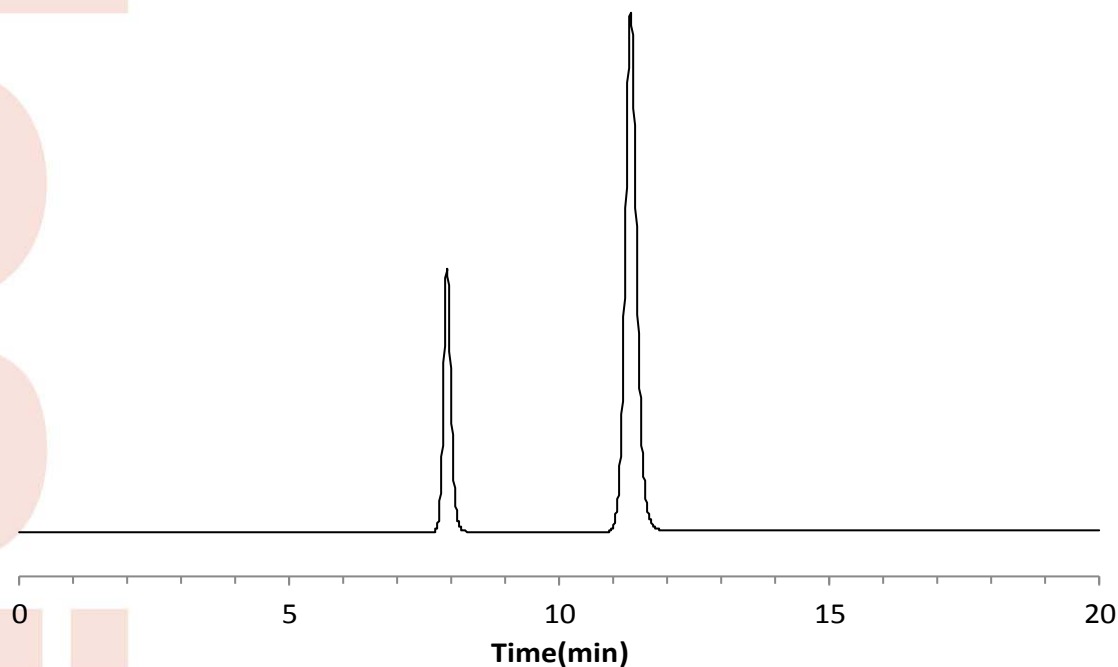
Packings	Develosil	100 Diol, 5 μm	Batch No.	250316
Column size	Inner diameter	4.6 mm	Length	250 mm
End fitting type	NW			
Mfg. No.	30061869-HU			

Operating conditions

Mobile phase	:	Acetonitrile:water=30:70
Flow rate	:	0.5 mL/min
Column temp.	:	30 °C
Pressure	:	3.6 MPa
Detection	:	UV 254 nm

Sample (Order of elution)

1	Benzene
2	Naphthalene



Theoretical plate

(Last peak) $5.54 \times (t_R/W_{0.5})^2 = 13671$

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	[μ m]	5.09
Surface Area	[m ² /g]	351
Pore Volume	[ml/g]	1.06
Median Pore Diameter	[nm]	10.94

※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	[%]	12.9
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Chromatographic Results for Develosil 100Diol-5

Analyte	Parameter	Specification	Result
BSA	Recovery	90<	90

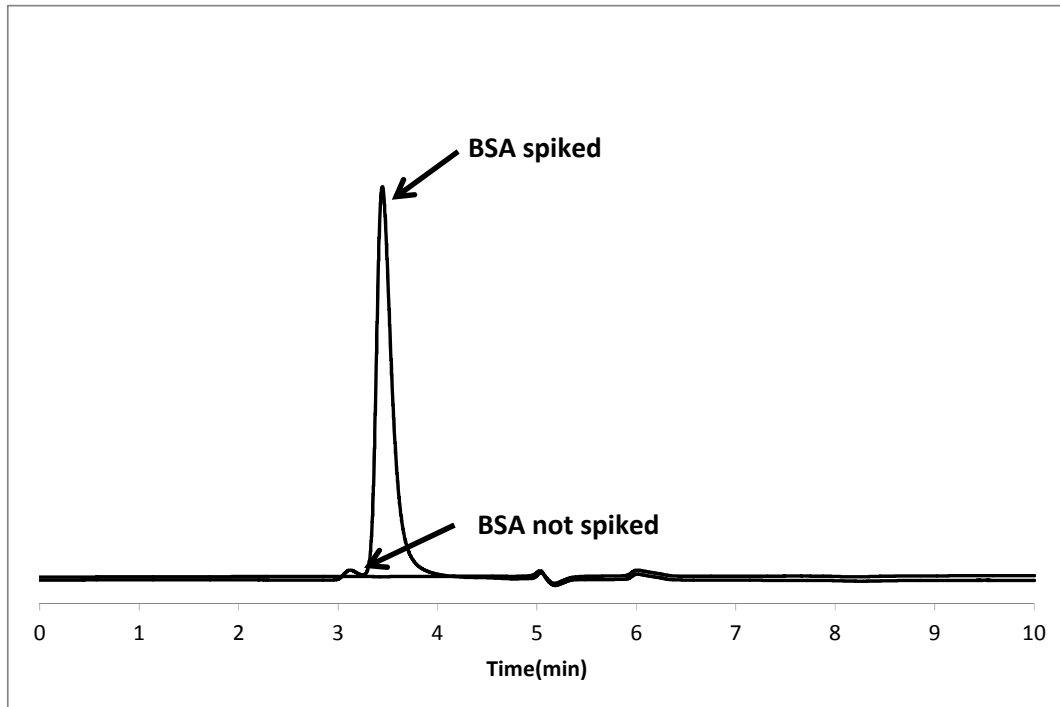


Fig. Chromatogram for BSA solution by HPLC

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