

<< Develosil Column >>

TEST REPORT

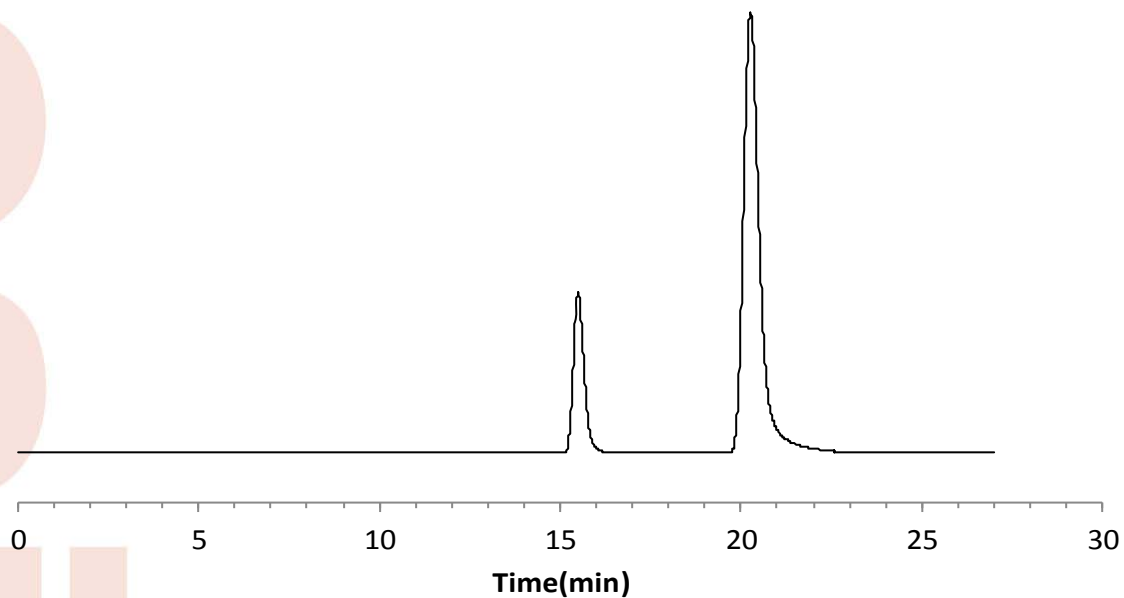
Packings	Develosil	300 Diol, 5 μm	Batch No.	03069
Column size	Inner diameter	2.0 mm	Length	250 mm
End fitting type	NW			
Mfg. No.	19101871-RV			

Operating conditions

Mobile phase	:	Acetonitrile:water=30:70
Flow rate	:	0.05 mL/min
Column temp.	:	30 °C
Pressure	:	1.6 MPa
Detection	:	UV 254 nm

Sample (Order of elution)

- 1 Benzene
- 2 Naphthalene



Theoretical plate (Last peak) $5.54 \times (t_R/W_{0.5})^2 = 11378$

$7000 \leq N$

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

Certificate of Analysis

Develosil 300Diol, 5um

Batch # 03069

Analytical Results for Develosil 300Diol, 5um

Analysis of Unbonded Silica Gel		Result
Median Particle Size	[μm]	5.70
Surface Area	[m^2/g]	178
Pore Volume	[ml/g]	1.06
Median Pore Diameter	[nm]	22.4

※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 300Diol, 5um

Total carbon	[%]	9.7
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Chromatographic Results for Develosil 300Diol, 5um

Analyte	Parameter	Specification	Result
BSA	Recovery	90<	93

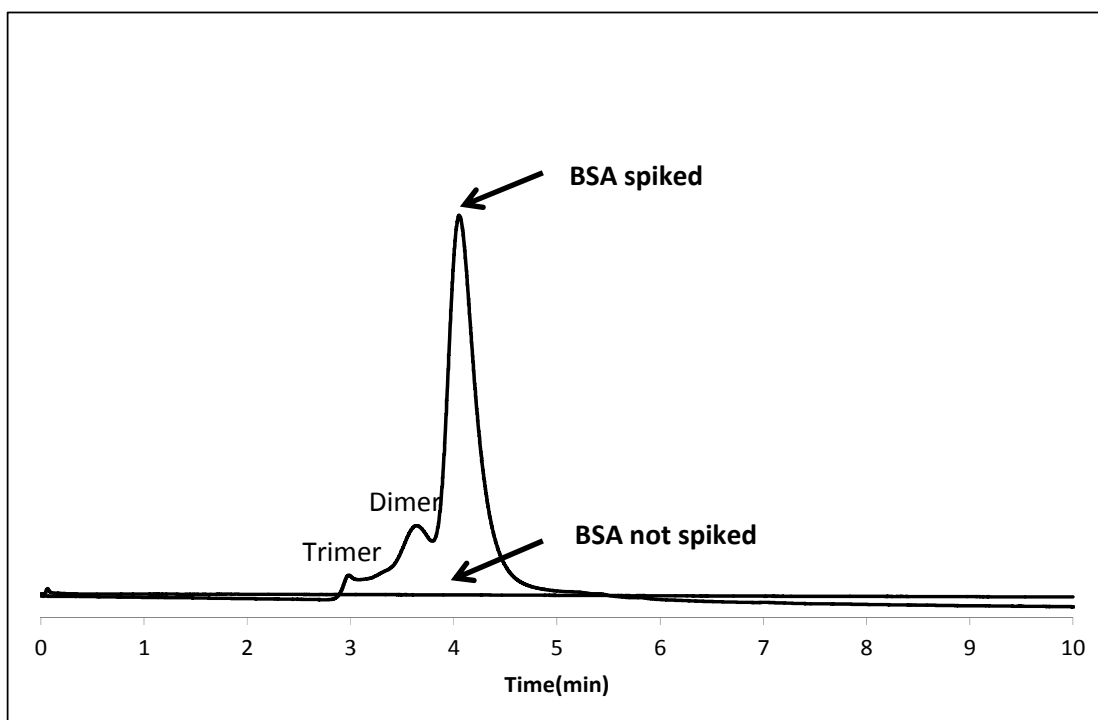


Fig. Chromatogram for BSA solution by HPLC

Analytical conditions

Column	: Develosil 100Diol-5 (4.6x250mm)
Mobile phase	: 150mM Ammonium Phosphate (pH7.0)
Flow rate	: 0.5mL/min
Detection	: 220nm
Sample	: BSA (1.0mg/mL)
Injection volume	: 5uL
Temperature	: 30°C