

<< Develosil Column >>

TEST REPORT

Packings	Develosil	100Diol, 5 μm	Batch No.	091116
Column size	Inner diameter	20 mm	Length	250 mm
End fitting type	NW			
Mfg. No.	06022061C-VN			

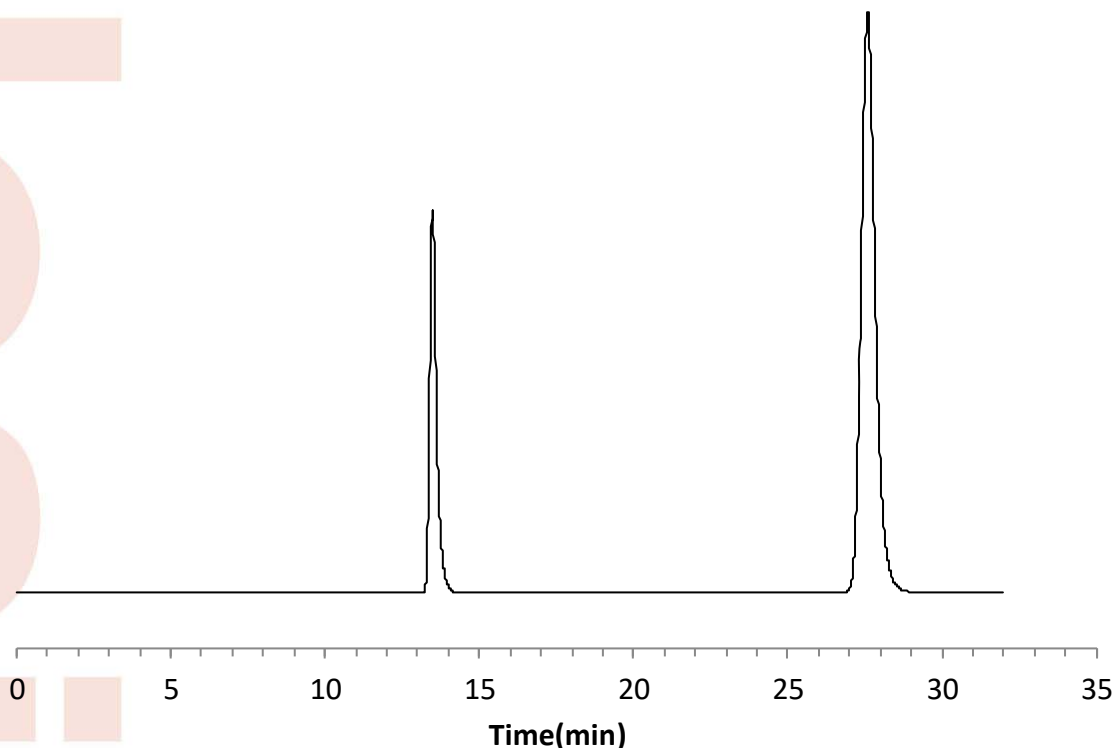
Operating conditions

Mobile phase	:	Acetonitrile:water=30:70
Flow rate	:	4.0 mL/min
Column temp.	:	30 °C
Pressure	:	1.5 MPa
Detection	:	UV 254 nm

Sample (Order of elution)

1	Uracil
2	Naphthalene

Maximum operating pressure: 13.7 Mpa



Theoretical plate (Last peak) $5.54 \times (t_R/W_{0.5})^2 = 18442$

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

Certificate of Analysis

Develosil 100Diol-5

Batch # 091116

Analytical Results for Develosil 100Diol-5

Analysis of Unbonded Silica Gel		Result
Median Particle Size	[μm]	5.25
Surface Area	[m^2/g]	354
Pore Volume	[ml/g]	1.07
Median Pore Diameter	[nm]	10.08

※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	[%]	12.5
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Chromatographic Results for Develosil 100Diol-5

Analyte	Parameter	Specification	Result
BSA	Recovery	90<	96

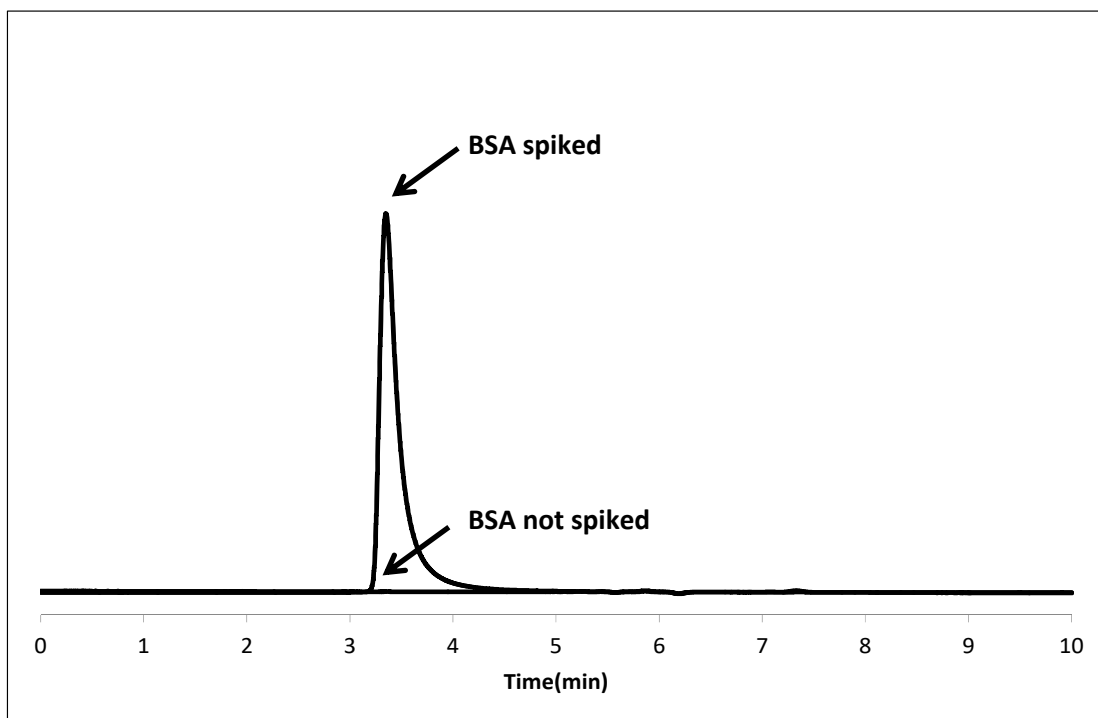


Fig. Chromatogram for BSA solution by HPLC

Analytical conditions

Column	: Develosil 100Diol-5 (4.6x250mm)
Mobile phase	: 150mM Ammonium Phosphate (pH7.0)
Flow rate	: 0.5mL/min
Detection	: 220nm
Sample	: BSA
Injection volume	: 20uL
Temperature	: 30°C