

<< Develosil Column >>

TEST REPORT

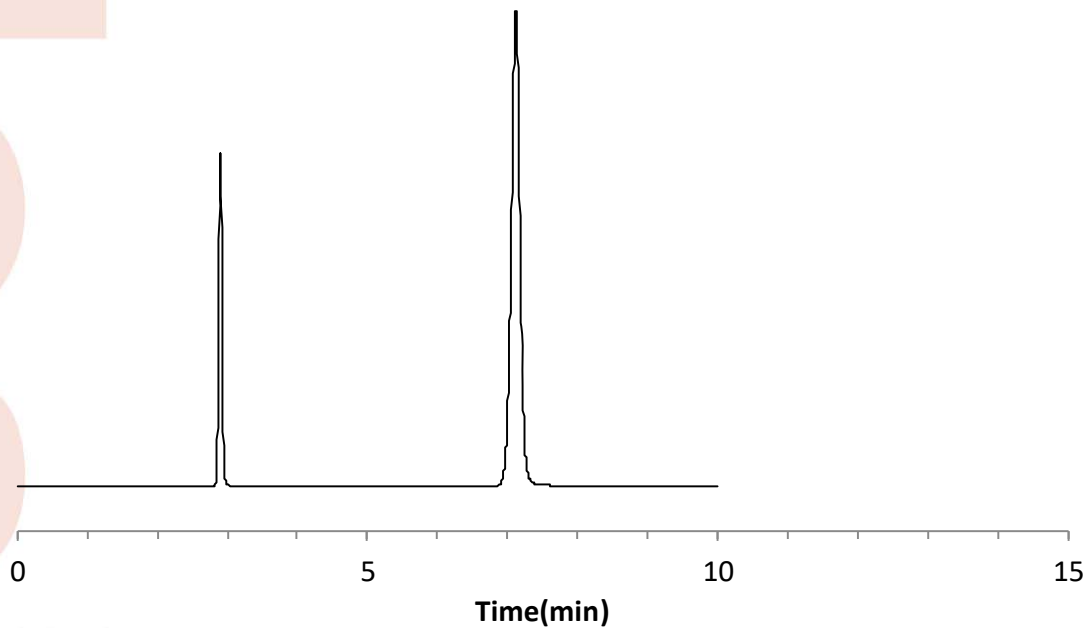
| | | | | |
|------------------|----------------|------------|-----------|--------|
| Packings | Develosil | 100 Diol-5 | Batch No. | 250316 |
| Column size | Inner diameter | 4.6 mm | Length | 250 mm |
| End fitting type | NW | | | |
| Mfg. No. | 02021863-PC | | | |

Operating conditions

| | | |
|--------------|---|---------------------|
| Mobile phase | : | Ethanol:hexane=2:98 |
| Flow rate | : | 1.0 mL/min |
| Column temp. | : | 30 °C |
| Pressure | : | 2.3 MPa |
| Detection | : | UV 254 nm |

Sample (Order of elution)

| | |
|---|----------------|
| 1 | Benzene |
| 2 | o-Nitroanisole |



| | | |
|-------------------|---------------------------|---------------------------------------|
| Theoretical plate | (Last peak) | $5.54 \times (t_R/W_{0.5})^2 = 16215$ |
| Asymmetry factor | (10% Height of Last peak) | = 0.95 |

Mobile phase at shipment: Ethanol:hexane=2:98

Certificate of Analysis

Develosil 100Diol-5

Batch # 250316

Analytical Results for Develosil 100Diol-5

| | | |
|---------------------------------|---------------------------|--------------|
| Analysis of Unbonded Silica Gel | | Result |
| Median Particle Size | [μm] | 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 |
|--------------|-----|-------------|

Chromatographic Results for Develosil 100Diol-5

| Analyte | Parameter | Specification | Result |
|---------|-----------|---------------|--------|
| BSA | Recovery | 90< | 90 |

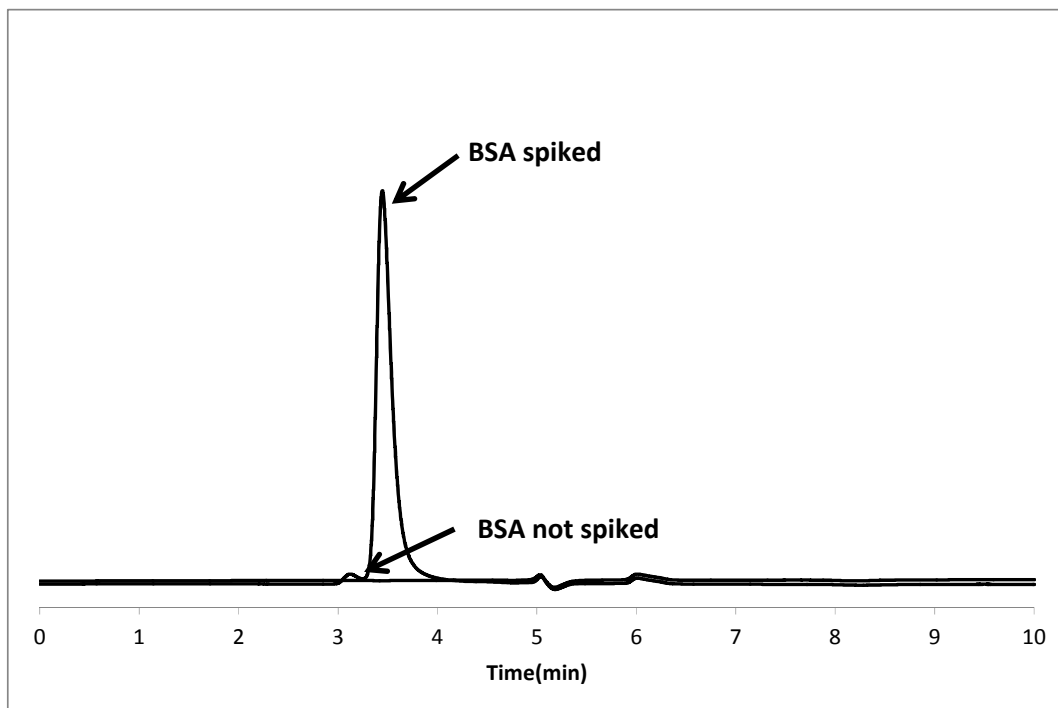


Fig. Chromatogram for BSA solution by HPLC

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