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Inertsil ® Applications

Analysis of thiols derivatized with 7-fluoro-2,1,3-benzoxadiazole-4-sulfonate (SBD-F)

Data No. LL024-0000

The chromatogram was provided by Dr. Makoto Tsunoda,
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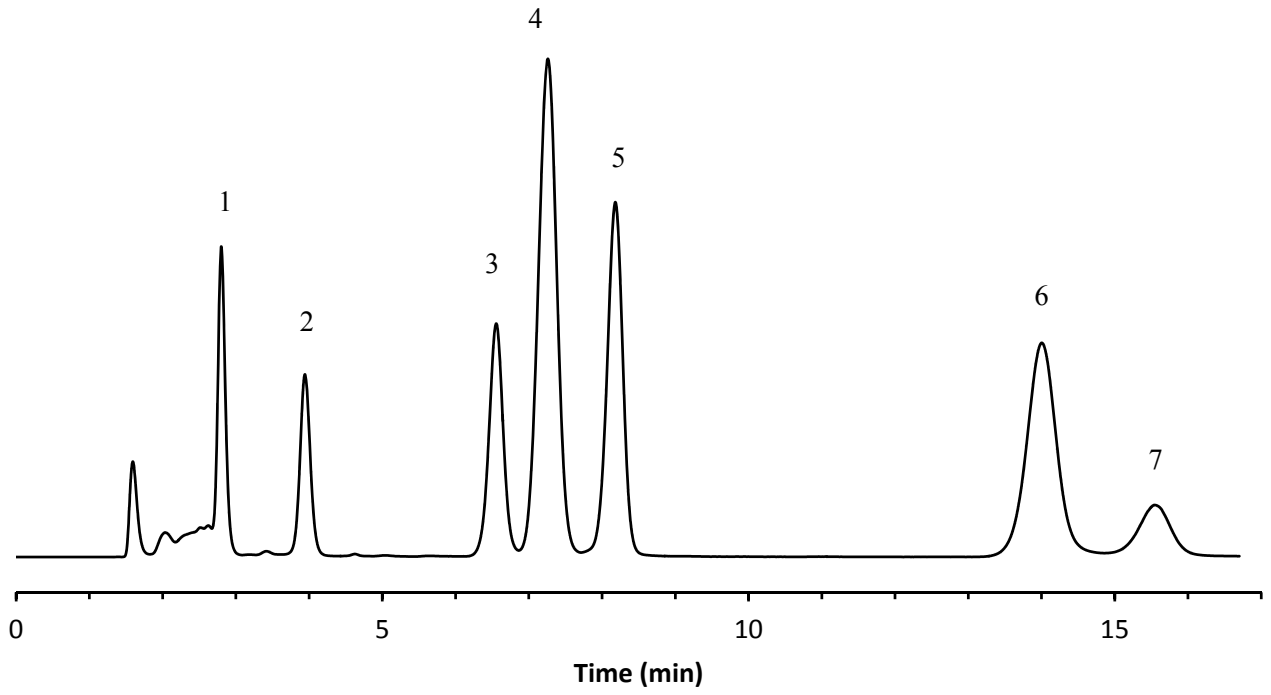

Conditions

Column : Inertsil Amide (5 μm, 150 x 3.0 mm I.D.)
Column Cat. No. : 5020-07815
Eluent : A) CH_3CN
B) 40 mM NH_4COOH (pH 3.0, HCOOH)
A/B = 75/25, v/v
Flow rate : 0.4 mL/min
Col. Temp. : 35 ℃
Detection : FL Ex 375 nm Em 510 nm
Injection Vol. : 5 μL
Sample : Standard solution derivataized by SBD-F

Analyte:

SBD-thiols;

1. *N*-(2-mercaptopropionyl)glycine (MPG)	0.1 μM
2. *N*-Acetylcysteine (NAC)	0.5 μM
3. Homocysteine (Hcy)	0.5 μM
4. Cysteine (Cys)	5.0 μM
5. Cysteinylglycine (CysGly)	0.5 μM
6. Glutathione (GSH)	1.0 μM
7. γ-Glutamylcysteine (γ-GluCys)	1.5 μM