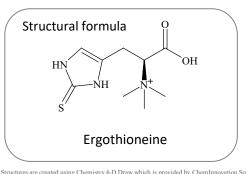
# **Analysis of Ergothioneine in Shiitake Mushroom by HPLC**

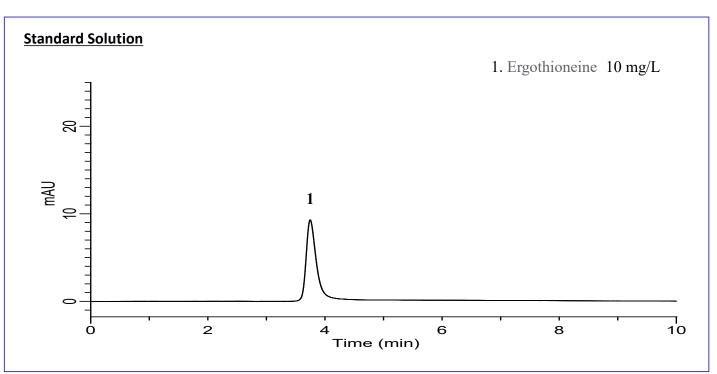
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This time, the analysis of ergothioneine, a type of amino acid is presented. Ergothioneine whose antioxidant effect is said to be about 7,000 times larger as compared with vitamin E is known to be contained in various species of mushrooms.

Ergothioneine contained in dried shiitake mushroom was successfully measured by using InertSustain PFP, but without using ion-pairing reagent requiring a long time for equilibrating. (K. Suzuki)



Structures are created using Chemistry 4-D Draw which is provided by ChemInnovation Software, Inc.





Column : InertSustain PFP

 $(5 \mu m, 150 \times 4.6 \text{ mm I.D.})$ 

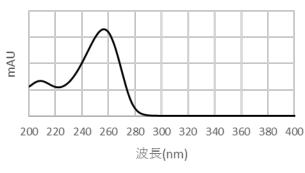
Cat. No. :5020-87730

**Eluent** : 0.05 % CH<sub>3</sub>COOH in H<sub>2</sub>O

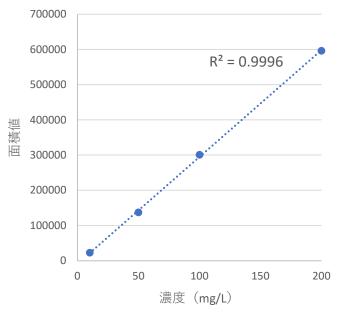
Flow rate : 1.0 mL/min Column temperature : 40 °C

Detection : UV 250 nm (DAD)

Injection volume : 20 µL





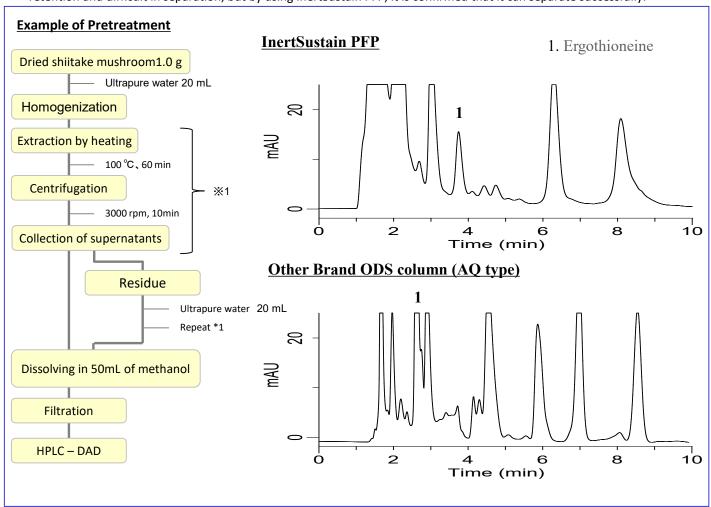


Calibration curve

## GL Sciences LC Technical Note

### Analysis Example

By using DigiPREP Jr., the sample was extracted by heating and adjusted for measurement. The ODS column is weak in retention and difficult in separation, but by using InertSustain PFP, it is confirmed that it can separate successfully.



GL Sciences disclaims any and all responsibility for any injury or damage which may be caused by this data directly or indirectly. We reserve the right to amend this information or data at any time and without any prior announcement.

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