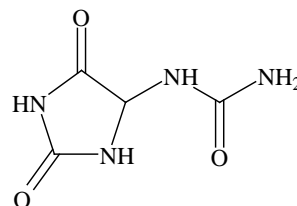


Allantoin is a widely used in products such as pharmaceuticals and cosmetics. Due to its strong water solubility, reversed-phase HPLC using columns such as ODS has little retention, and the effects of ion pairs make analysis difficult. In this application, hydrophilic interactions (HILIC mode) was used to obtain excellent assay results.

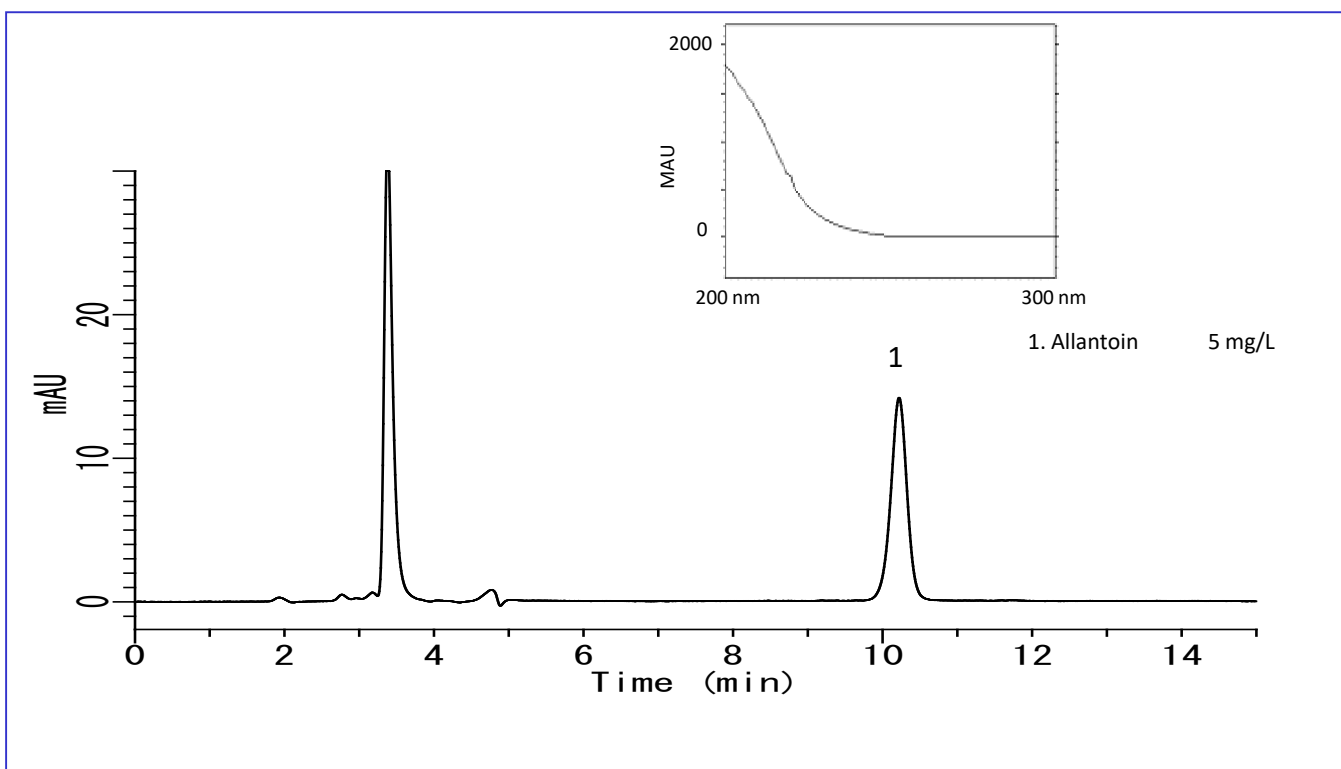
(K.Suzuki)

Structural formula



Allantoin

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

Example: Measurement of standard**HPLC conditions**

Column : Inertsil HILIC
(5 μm , 250 x 3.0 mm I.D.)

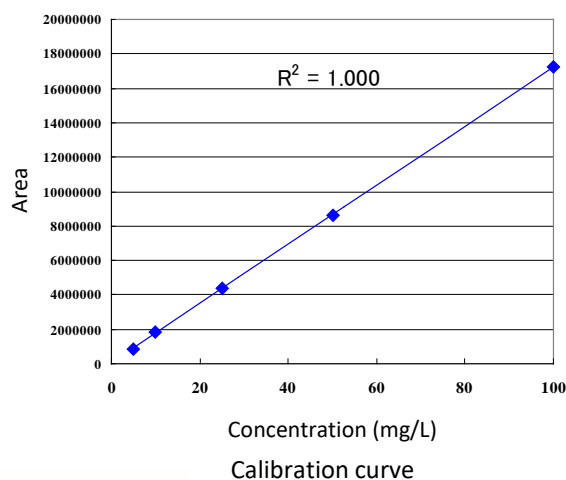
Eluent : A) CH_3CN
B) H_2O
A/B = 95/5, v/v
(gradient mixer)

Flow rate : 0.4 mL/min

Column temperature : 40 $^\circ\text{C}$

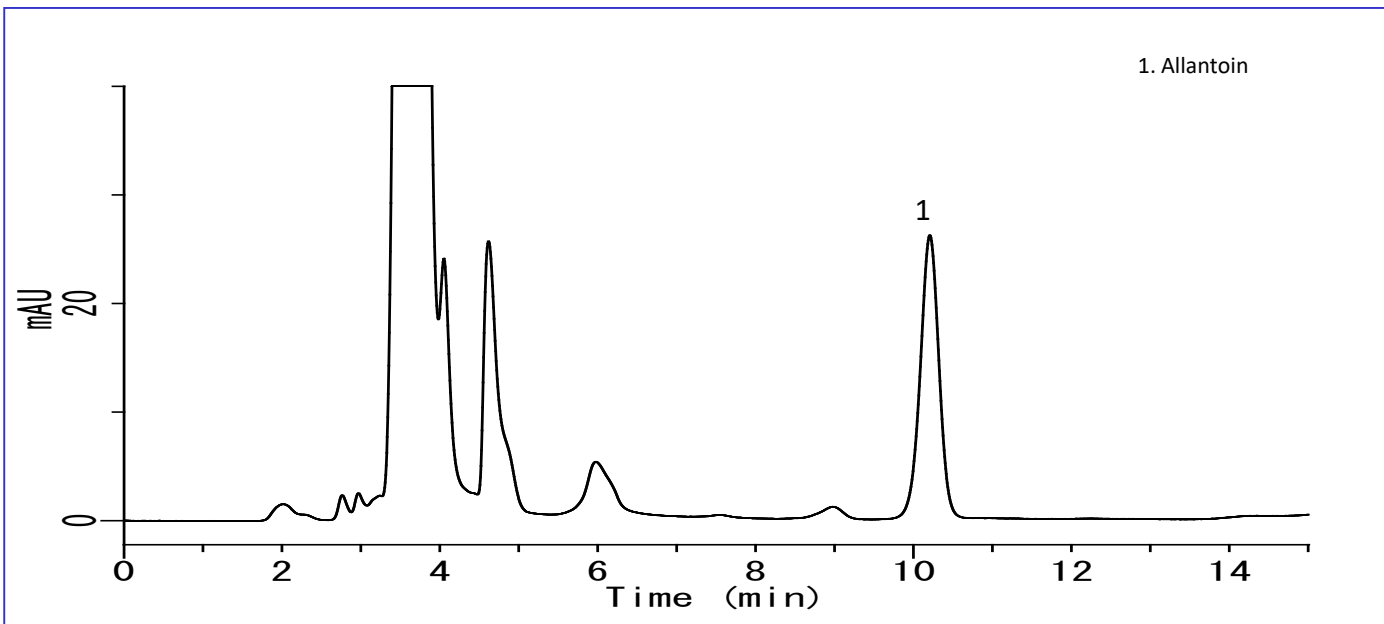
Detected : PDA 210 nm

Injection volume : 20 μL



Examples of analysis of cosmetic solutions

The assay was performed by filtering the cosmetic solution through a 0.45 μm filter and diluting the solution 10-fold with acetonitrile.



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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