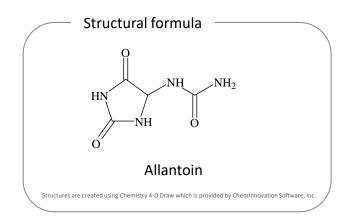
Analysis of Allantoin in Cosmetics Using HILIC HPLC

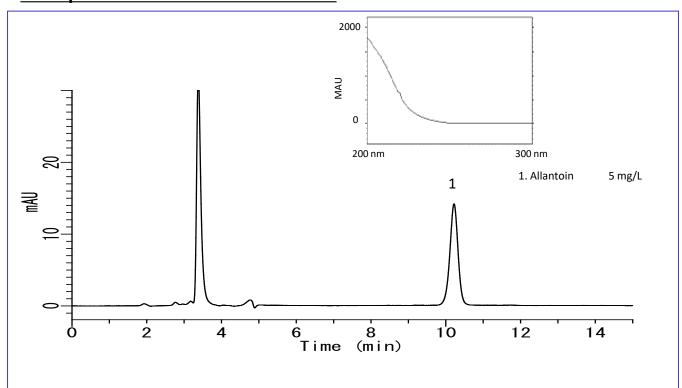
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Allantoin is a widely used in products such as pharmaceuticals and cosmetics. Due to its strong water solubility, reversed-phase HPLC using columns such as ODS has little retention, and the effects of ion pairs make analysis difficult. In this application,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

(K.Suzuki)



Example: Measurement of standard



HPLC conditions

Column : Inertsil HILIC

(5 μm, 250 x 3.0 mm I.D.)

Eluent : A) CH ₃ CN

B) H₂O

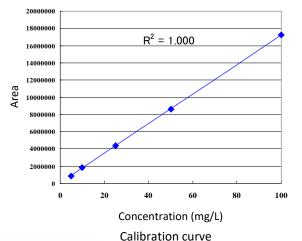
A/B = 95/5, v/v

(gradient mixer)

Flow rate : 0.4 mL/min
Column temperature : 40 °C

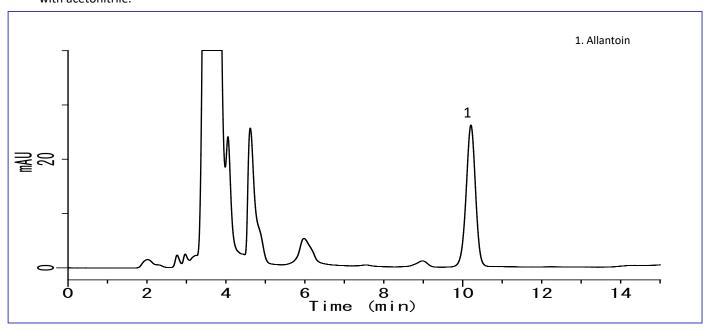
 $\begin{array}{ll} \textbf{Detected} & : PDA \ 210 \ nm \\ \textbf{Injection volume} & : 20 \ \mu L \end{array}$

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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.



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