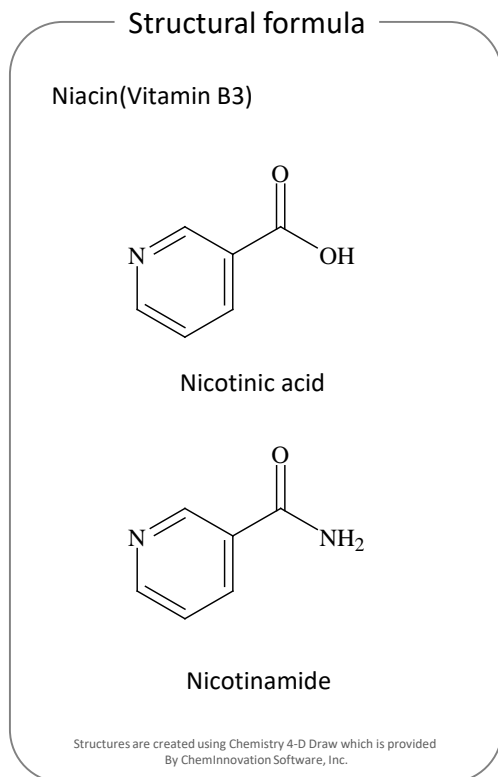
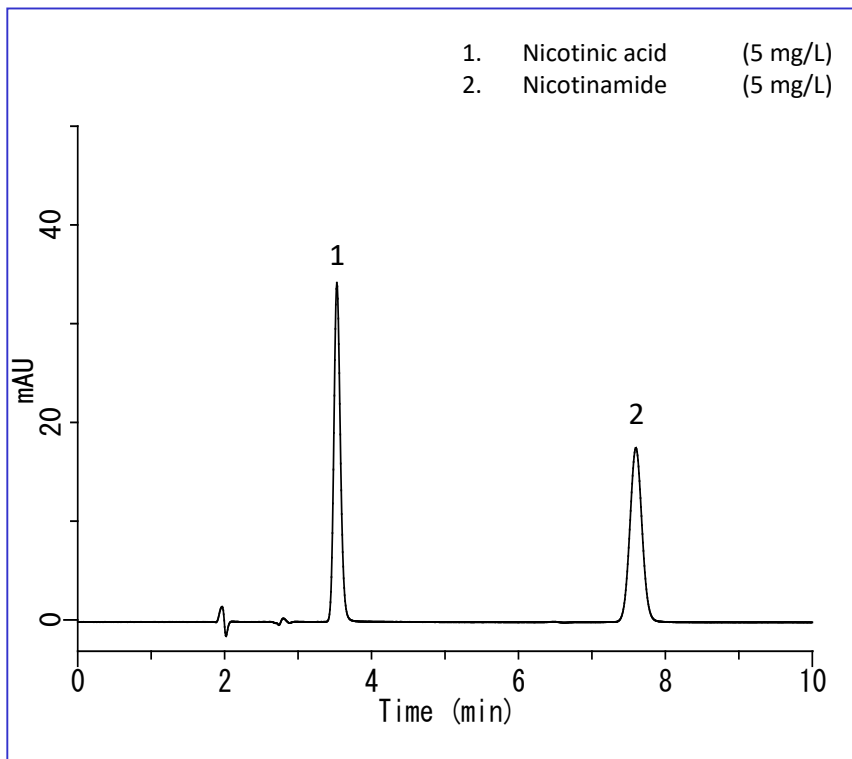


Niacin is a generic name for nicotinic acid and nicotinamide, which are also present in foods as derivatives. Microbial assays are known to be sensitive, but the use of reversed-phase HPLC with ion-pairing methods allows both the analysis and isolation of niacin. The HPLC method described in the Guideline for Food Hygiene Inspection suggests an Inertsil ODS-2 analytical column. This report demonstrates improved results using an Inertsil ODS-3, which is a low-pressure column and hence is more durable.

(K.Suzuki)

Example: Measurement of standards



HPLC conditions

Column : Inertsil ODS-3
(5 μm , 150 x 4.6 mm I.D.)

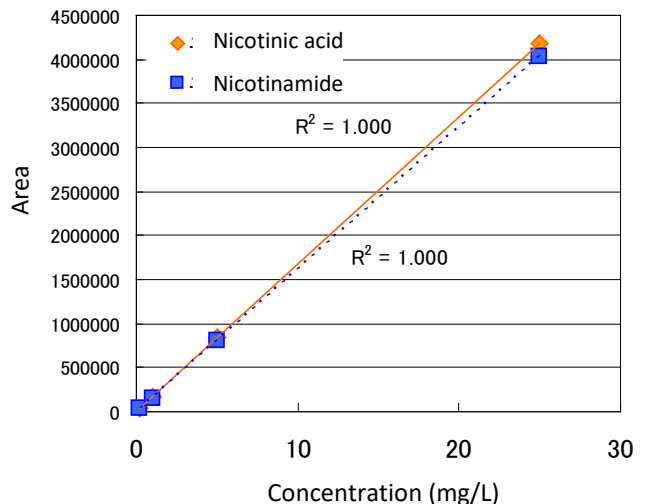
Eluent : A) CH_3OH
B) 0.1 % CH_3COOH , 5 mM IPCC-06
(IPCC-06 : Sodium 1-Hexanesulfonate)
A/B = 7 / 93, v/v
(Mixed by a gradient mixer)

Flow rate : 1.0 mL/min

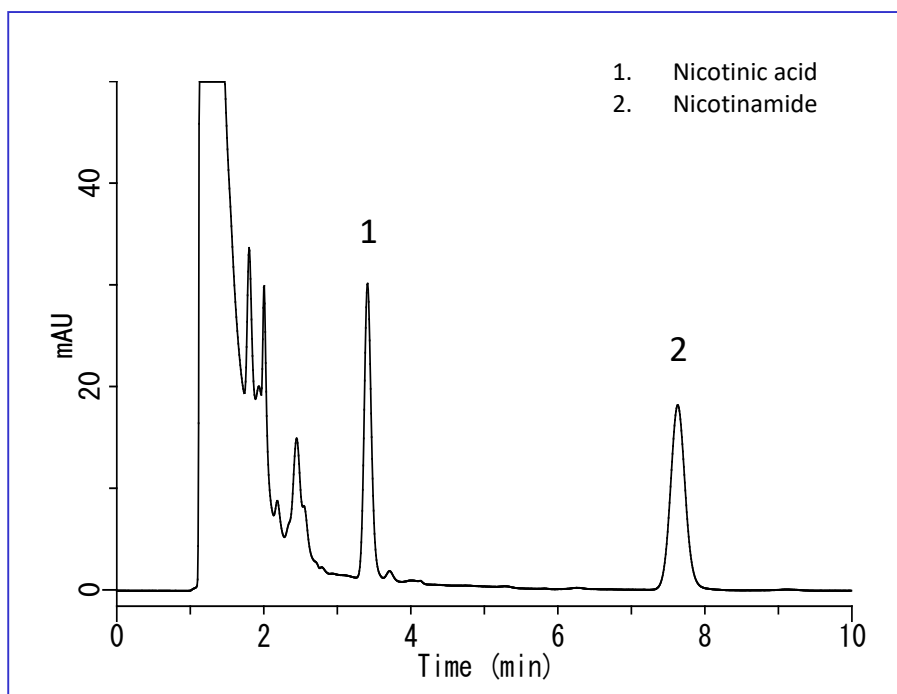
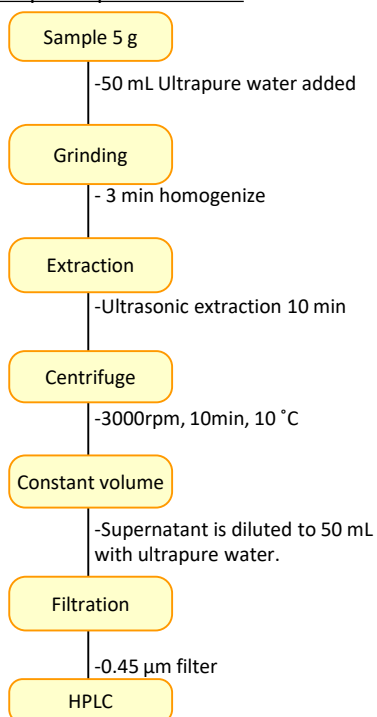
Column temperature : 40 $^\circ\text{C}$

Detected : UV 230 nm

Injection volume : 20 μL



Calibration curve

Example of spinach analysisExample of pretreatment

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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