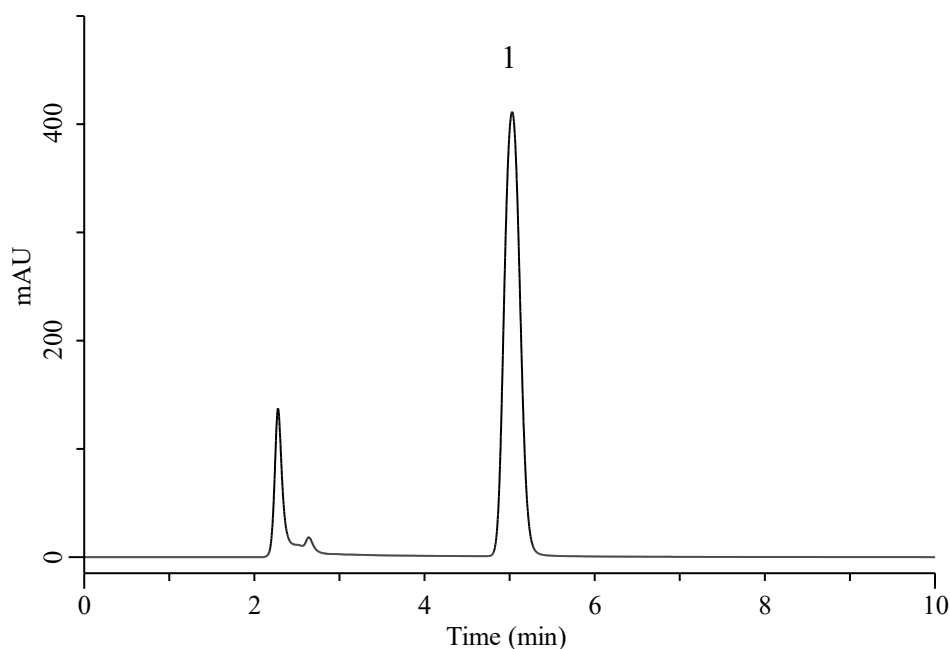


Analysis of Nicotinic acid

(Under the Condition of USP41-NF36, Oil- and Water-Soluble Vitamins Capsules_ NIACIN_Method 2)



Conditions

System : Chromaster PLUS (HITACHI)
Column : InertSustain C18 (GL Sciences Inc.)
 (5 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-07346
Eluent : Buffer*
Flow Rate : 1.0 mL/min
Col. Temp. : 40 °C
Detection : UV 254 nm (Chromaster 5420 UV-VIS)
Injection Vol. : 20 μ L
Sample : Standard in Solution**/CH₃OH=3/1, v/v

Analyte:

1. Nicotinic acid 0.2 mg/mL

RSD of the peak area(%)(n=6) : 0.10 ($\leq$ 3.0)

*:13.6 mg/mL of sodium acetate in water. Adjust with acetic acid to a pH of 5.4.

** :Transfer 1 mL of glacial acetic acid and 2.5 g of edetate disodium to a 100-mL volumetric flask.
Dissolve in and dilute with water to volume.