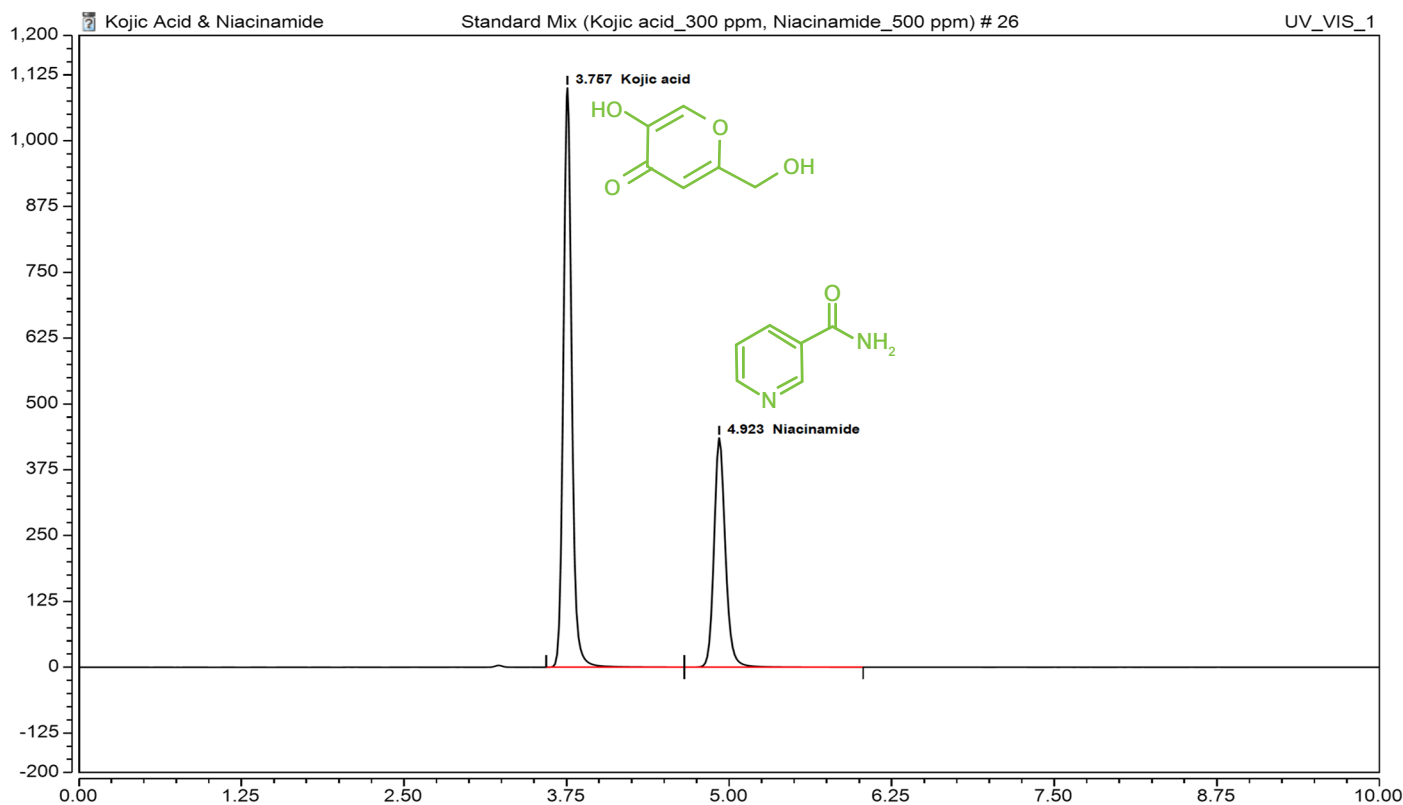


Kojic acid & Niacinamide

Endurus[®] Phenyl 5 μ m 250X4.6



Test Condition

Column:

Endurus[®] Phenyl 5 μ m 250X4.6

Injection: 5 μ L

Detection: UV 270 nm

Flow Rate: 1.0 mL/min

Mobile Phase: Dissolve 6.8 gm potassium dihydrogen phosphate in 1L HPLC water. Mix Buffer and Methanol in a ratio 80:20 (v/v)

Diluent: Mobile Phase

Temperature: 35°C

Autosampler temperature: 5°C

Sample / Standard:

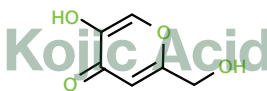
Take about 1gm of sample in a beaker, Add 20 ml of methanol and sonicate for 10 mins. Add 50 ml mobile phase and sonicate for 15 min. Dilute the sample to 100 ml in 100 ml volumetric flask. Then filter through Avantor glass fiber nylon Syringe filter 0.45 μ m (VWR:SF01-58)

Chromatographic data

No.	Compound	Retention Time (min)	Tailing Factor	Theoretical plates
1	Kojic Acid	3.743	1.12	17482
2	Niacinamide	4.900	1.16	16333

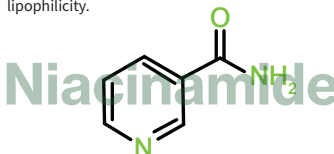
Kojic Acid:

Kojic Acid is a white or slightly yellow crystalline powder with a molecular formula C₆H₆O₄ and a molecular weight of 142.11 g/mol. It is highly soluble in water, ethanol, and acetone, with a melting point of 153-156°C. Kojic Acid has a pH of 4-6 in a 1% aqueous solution and a LogP value of -1.24, indicating high water solubility and low lipophilicity.



Niacinamide:

Niacinamide, or Nicotinamide, is a white crystalline powder with a molecular formula C₆H₆N₂O and a molecular weight of 122.12 g/mol. It is highly soluble in water and ethanol, melting between 128-131°C. Niacinamide's 5% aqueous solution has a pH of 6-7.5, and its LogP value is -0.37, indicating moderate water solubility and low lipophilicity.



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