



Certificate of Analysis

Sinapinic Acid Matrix

Agilent Part Number: G2038A **Sample Lot Number:** 5565286

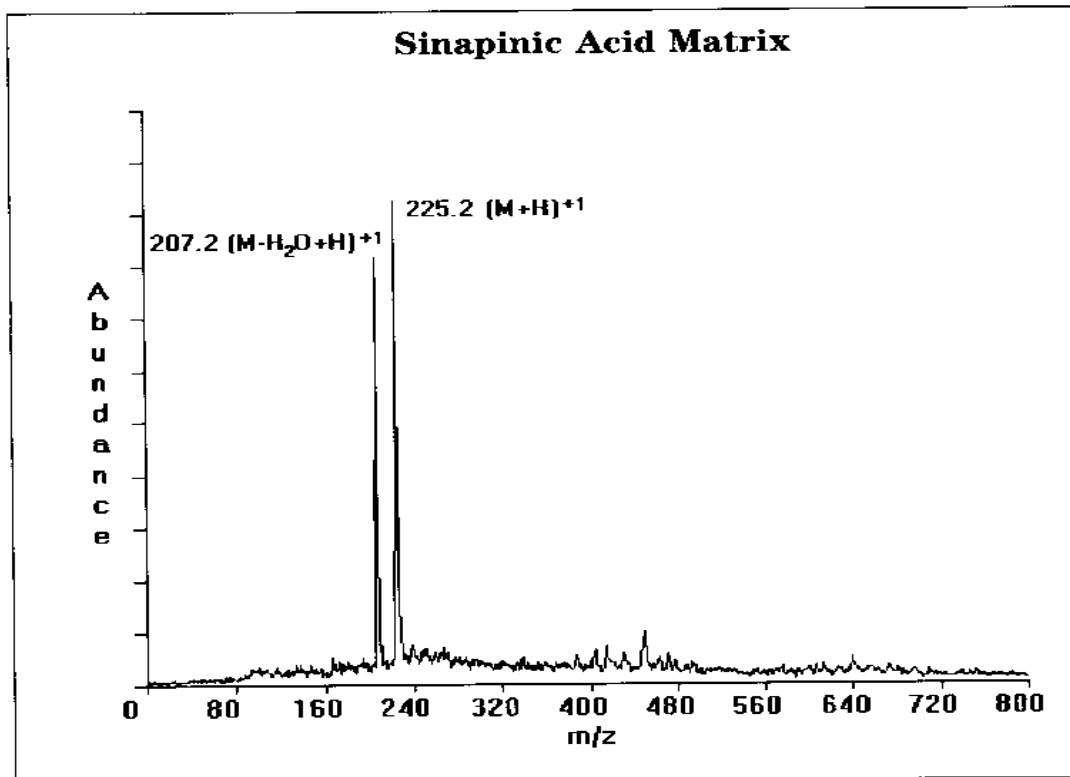
Concentration (weight to volume) and Purity/Grades

Neat Material	Gravimetric Concentration	Neat Material Purity and or Grade
Sinapinic Acid (CAS NO: 530-59-6)	22.4 mg/ml	98.1%
Solvent composition:		
DI Water (CAS NO: 7732-18-5)	8.0%	De-ionized
Methanol (CAS NO: 67-56-1)	36.0%	Capillary High Resolution Grade 99.9%
Acetonitrile (CAS NO.: 75-05-8)	56.0%	HPLC grade 99.9%

Traceability:

This standard has been produced gravimetrically using ISO9001 quality procedures. NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware. High-performance liquid chromatography mass spectroscopy was used to evaluate system performance.

Analytical Spectrum:



Matrix Solution Properties

Composition: 100mM solution of 3,5-dimethoxy-4-hydroxycinnamic acid
(predominantly trans) in acetonitrile/methanol/water

Formula weight: 224.21 (C₁₁H₁₂O₅)

pH: 3.70

Recommended excitation wavelength: 300-350nm

Typical laser fluence (337 nm, N₂ laser): ~4.5 mJoule/cm²

Manufacture Date: 19 FEBRUARY 2009

Expiration Date: 19 AUGUST 2010

Elwood Doughty
QA Manager
Supelco, Inc.