SSUPELCO



Certificate of Analysis

Alpha-Cyano-4-Hydroxycinnamic Acid Matrix

Agilent Part Number: G2037A Sample Lot Number: 5436781

Concentration (weight to volume) and Purity/Grades

Neat Material Gravimetric Concentration Neat Material Purity and/or Grade

Alpha-cyano-4-hydroxycinnamic acid (CAS NO.: 28166-41-8) 6200 ug/ml 99.90%

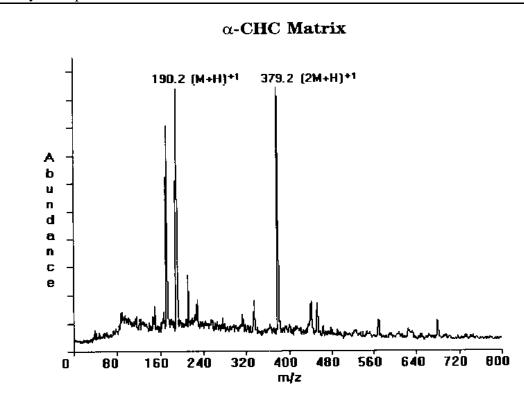
Solvent Composition:

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%DI Water (CAS NO.: 7732-18-5)8.0%De-ionized

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:

33 mM solution of A-cyano-4-hydroxycinnamic acid in Acetonitrile/Methanol/DI-Water

Formula weight: 189.17 (C₁₀H₇NO₃)

pH: 2.50

Recommended excitation wavelength: 300-350 nm

Typical laser fluence (337 nm, N2 laser): ~2.5 mJoule/cm²

Date of Manufacture: 06 FEBRUARY 2006 **Date of Expiration:** 06 AUGUST 2007

Elwood Doughty QA Manager Supelco, Inc.