

Certificate of Analysis

APCI/APPI Calibrant Solution

**Agilent Part
Number:**

G2432A

**Sample Lot
Number:**

A720772

Concentration (weight to weight) and Purity/Grades

Neat Material	Gravimetric Conc. mg/g	Neat Material Purity and/or Grade
Purine (CAS NO: 120-73-0)	0.008 (+/-4.0%)	98.00%
Hexamethoxyphosphazene (CAS NO: 957-13-1)	0.002 (+/-5.0%)	99.10%
Hexakis (2, 2-Difluoroethoxy) Phosphazene (CAS NO: 186817-57-2)	0.008 (+/-4.0%)	98.50%
Hexakis (1H, 1H, 3H-Tetrafluoropropoxy) Phosphazene (CAS NO: 58943-98-9)	0.014 (+/-4.0%)	97.50%
Hexakis (1H, 1H, 5H-Octafluoropentoxy) Phosphazene (CAS NO: 16059-16-8)	0.020 (+/-2.0%)	99.00%
Hexakis (1H, 1H, 7H-Dodecafluoroheptoxy) Phosphazene (CAS NO: 3830-74-8)	0.042 (+/-2.0%)	99.00%

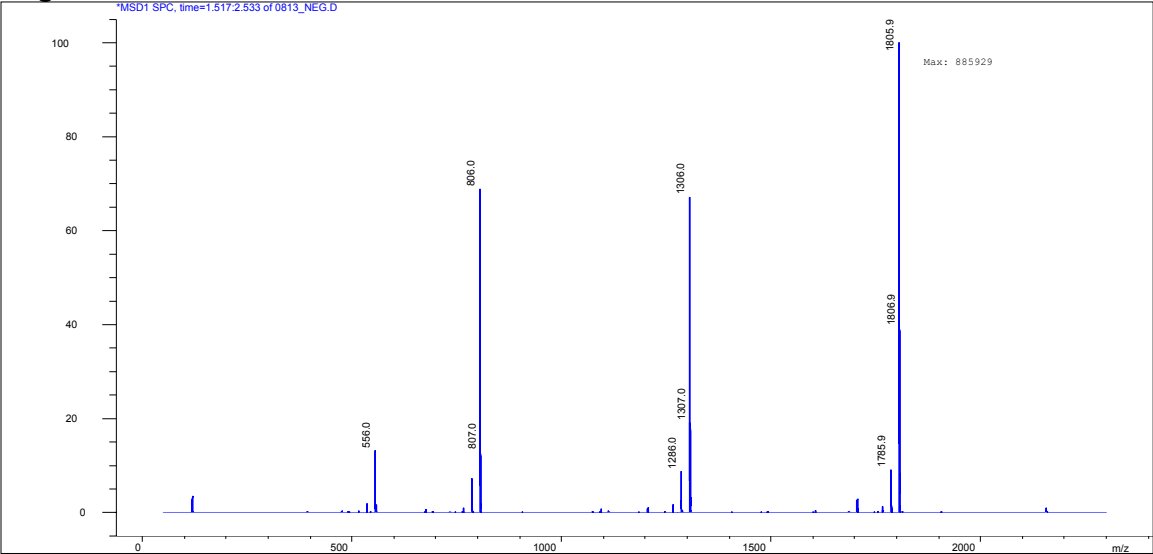
Solvent Composition:	Percentage	Grade
Acetonitrile (CAS NO: 75-05-8)	74.0	HPLC grade 99.9%
Methanol (CAS NO: 67-56-1)	15.0	Capillary High Resolution grade 99.9%
Chloroform (CAS NO: 67-66-3)	1.8	Capillary High Resolution grade 99.9%
Acetone (CAS NO: 67-64-1)	4.0	Capillary High Resolution grade 99.9%
DI Water (CAS NO: 7732-18-5)	5.2	De-ionized

Traceability:

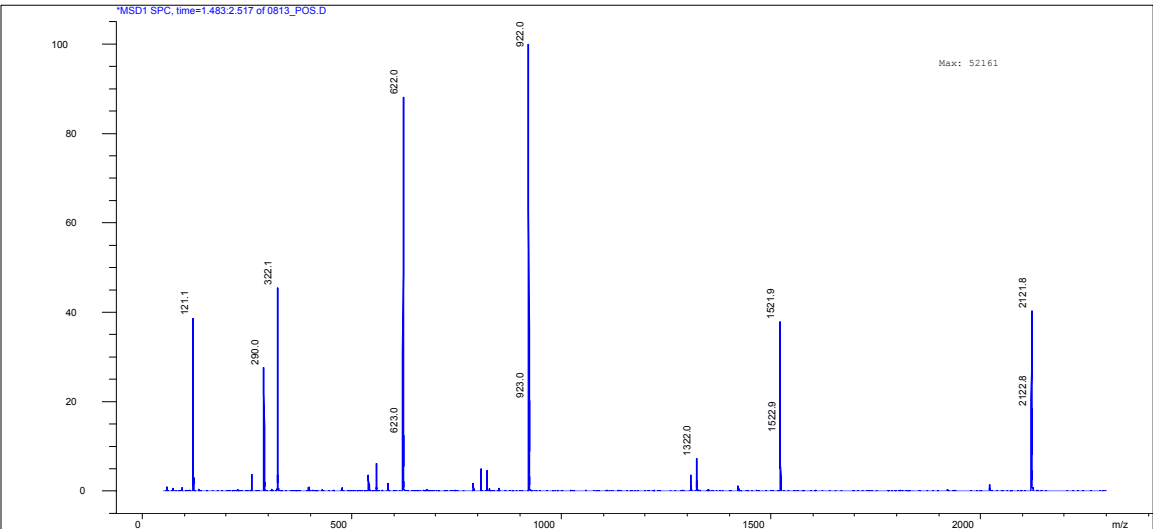
This standard has been produced gravimetrically using ISO9001 quality procedures. Balances used are calibrated regularly and meet the requirements of ISO. High-performance liquid chromatography mass spectroscopy was used to evaluate system performance.

Analytical Spectrum:

Negative Scan



Positive Scan



Conditions:

Agilent 1100 Series LC/MSD

G1946D LC/MSD SL

G1971A APPI source

G2432A APCI Tuning Calibrant, Positive mode

Column: none

Column Temp: N/A

Flow Rate: 0.1 ml/min (infusion)

Mobile Phase: 85% Acetonitrile, 10% Water, 5% Acetone (neat calibrant)

Ionization mode: Positive APPI

Nebulizer Pressure: 15 psi

Drying Gas Flow: 6 L/min

Drying Gas Temp: 350 deg C

Vaporizer Temp: 350 deg C

Corona current: 4 mA

Scan Range: 50-3000

Step size: 0.10 amu

G2432A APCI Tuning Calibrant, Negative mode

Column: None

Column Temp: N/A

Flow Rate: 0.1 ml/min (infusion)

Mobile Phase: 85% Acetonitrile, 10% Water, 5% Acetone

Ionization mode: Negative APPI

Nebulizer Pressure: 15 psi

Drying Gas Flow: 6 L/min

Drying Gas Temp: 350 deg C

Vaporizer Temp: 350 deg C

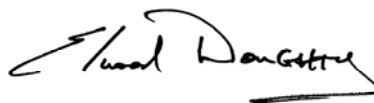
Corona Current: 4 mA

Scan Range: 50-3000

Step Size: 0.10 amu

Manufacture Date: 02 JUNE 2004

Expiration Date: 02 JUNE 2006



Elwood Doughty
QA Manager
Supelco, Inc.