Agilent Technologies

SUPELCO

Certificate of Analysis

APCI/APPI Calibrant Solution

Agilent Part Number:	**G2432A**	**Sample Lot Number:**	**A702957**

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%)	97.40%
Hexakis (1H, 1H, 5H-Octafluoropentoxy) Phosphazene (CAS NO: 16059-16-8)	0.020 (+/-2.0%)	98.00%
Hexakis (1H, 1H, 7H-Dodecafluoroheptoxy) Phosphazene (CAS NO: 3830-74-8)	0.042 (+/-2.0%)	99.00%

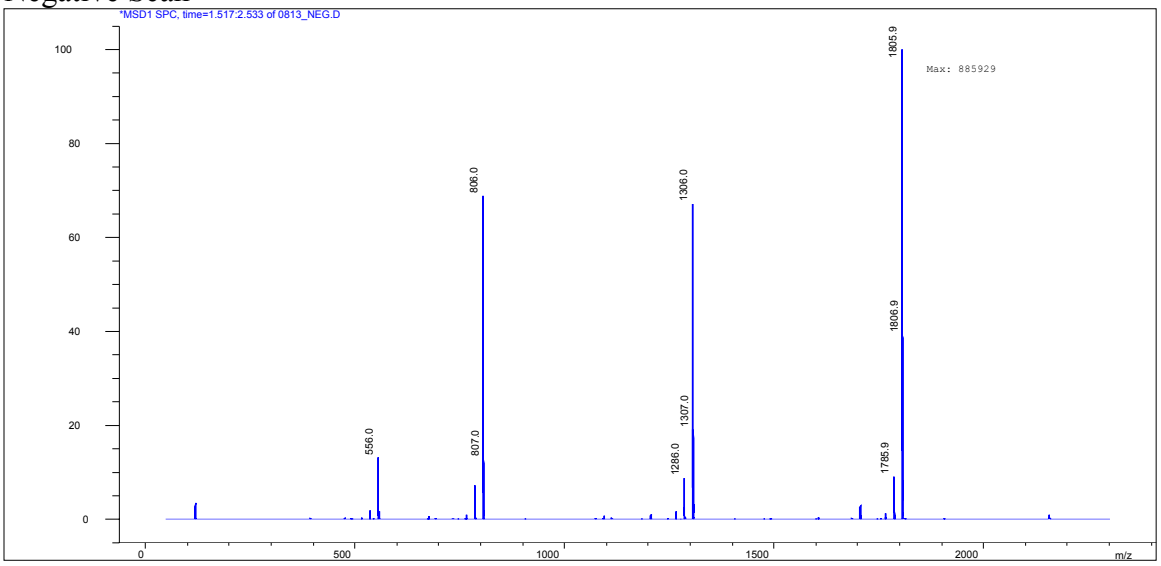
Solvent Composition:	**Conc. g/g**	**Grade**
Acetonitrile (CAS NO: 75-05-8)	0.784 (+/- 0. 5%)	HPLC grade 99.9%
Methanol (67-56-1)	0.156 (+/- 0. 5%)	Capillary high Resolution grade 99.9%
Chloroform (CAS NO: 67-66-3)	0.019 (+/- 0. 5%)	Capillary High Resolution grade 99.9%
Acetone (67-64-1)	0.040 (+/- 0. 5%)	Capillary High Resolution grade 99.9%

Traceability:

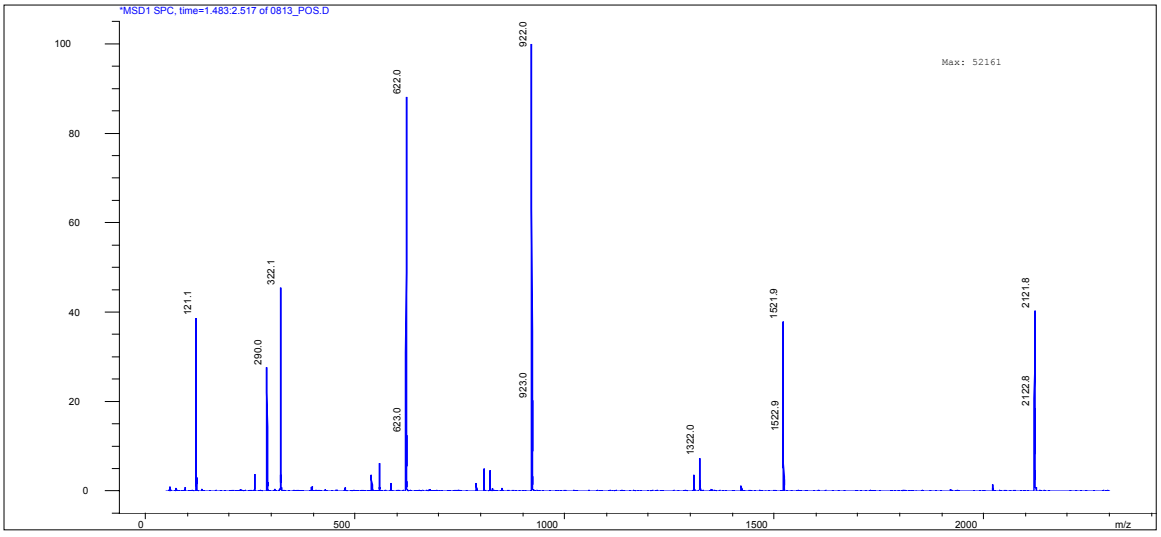
This standard has been produced gravimetrically using ISO9001 quality procedures. Balances used are calibrated regularly and meet the requirements of ISO. High-performance liquid chromatography mass spectroscopy was used to evaluate system performance.

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: 7-March-2002
Expiration Date: 7-March-2004



Elwood Doughty
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Supelco, Inc.