Agilent Technologies

SUPELCO

# Certificate of Analysis

## APCI/APPI Calibrant Solution

| | | | |
|---|---|---|---|
| **Agilent Part Number:** | **G2432A** | **Sample Lot Number:** | **A701947** |

## Concentration (weight to weight) and Purity/Grades

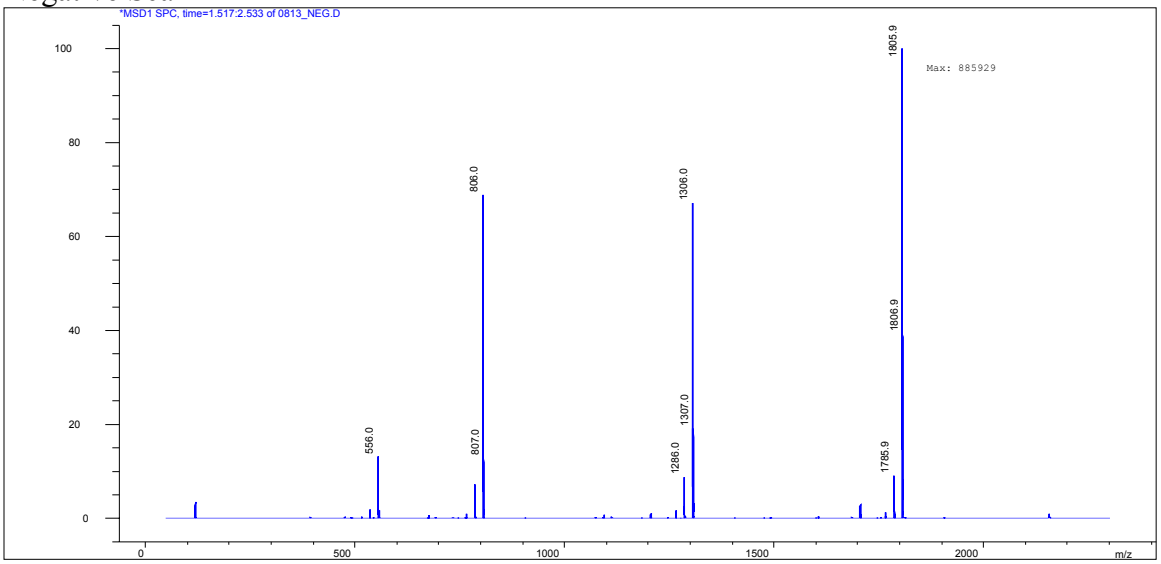
| Neat Material | Gravimetric Conc. mg/g | Neat Material Purity and/or Grade |
|---|---|---|
| Purine ( CAS NO: 120-73-0) | 0.008 (+/-5%) | 98.00% |
| Hexamethoxyphosphazene (CAS NO: 957-13-1) | 0.002 (+/-5%) | 99.10% |
| Hexakis (2, 2-Difluoroethoxy) Phosphazene (CAS NO: 186817-57-2) | 0.008 (+/-5%) | 98.50% |
| Hexakis (1H, 1H, 3H-Tetrafluoropropoxy) Phosphazene (CAS NO: 58943-98-9) | 0.014 (+/-5%) | 97.40% |
| Hexakis (1H, 1H, 5H-Octafluoropentoxy) Phosphazene (CAS NO: 16059-16-8) | 0.020 (+/-5%) | 98.00% |
| Hexakis (1H, 1H, 7H-Dodecafluoroheptoxy) Phosphazene (CAS NO: 3830-74-8) | 0.042 (+/-5%) | 99.00% |

| **Solvent Composition:** | **Conc. g/g** | **Grade** |
|---|---|---|
| Acetonitrile (CAS NO: 75-05-8) | 0.784 (+/- 0.05%) | HPLC grade 99.9% |
| Methanol (67-56-1) | 0.156 (+/- 0.05%) | Capillary high Resolution grade 99.9% |
| Chloroform (CAS NO: 67-66-3) | 0.019 (+/- 0.05%) | Capillary High Resolution grade 99.9% |
| Acetone (67-64-1) | 0.040 (+/- 0.05%) | Capillary High Resolution grade 99.9% |

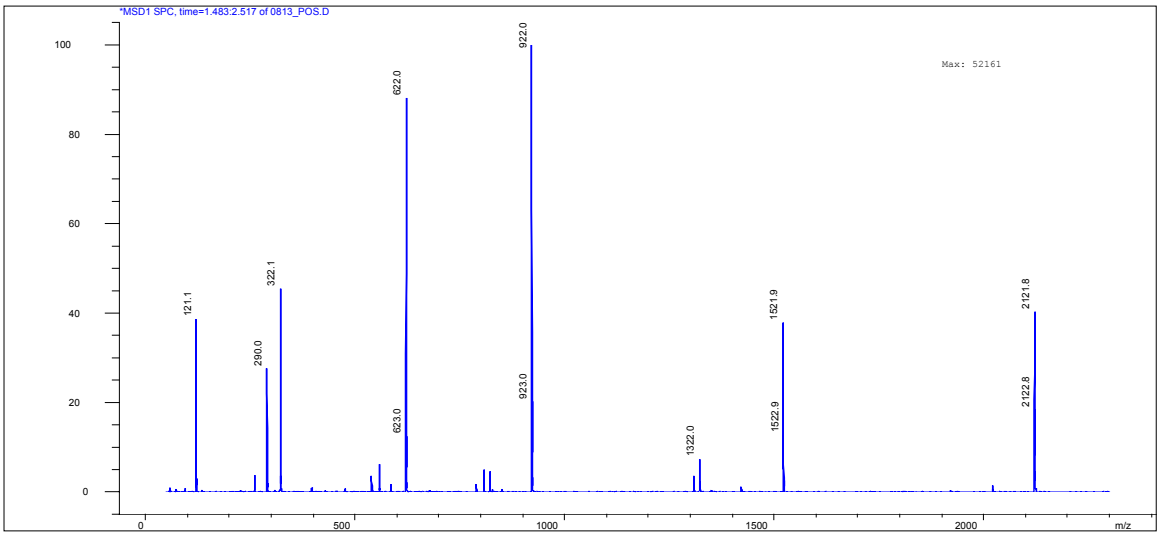
**Traceability**:
This standard has been produced gravimetrically using ISO9001 quality procedures. Balances used are calibrated regularly and meet the requirements of ISO. High-performance liquid chromatography mass spectroscopy was used to evaluate system performance.

## 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: 8 January 02**
**Expiration Date: 8 January 04**



Elwood Doughty
QA Manager
Supelco, Inc.