



## **Certificate of Analysis**

## **ESI Tuning Mix 100ml**

Agilent Part Number: G2421A/G2421-60001 Sample Lot Number: A107294

**Storage Condition:** Room Temperature

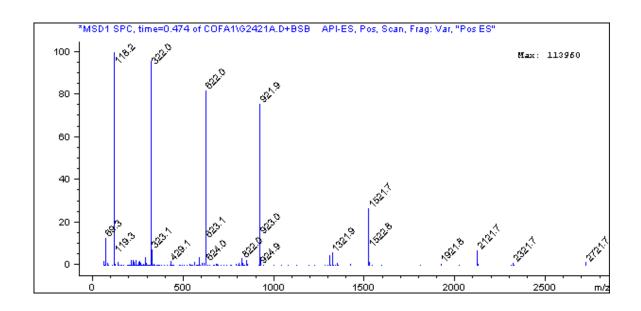
## Concentration (weight to volume) and Purity/Grades:

Neat Material	Gravimetric Conc.	Neat material Purity and/or Grade
Betaine (CAS NO.: 107-43-7)	< 0.01%	99.9%
Trifluoroacetic Acid Ammonium Salt (CAS NO.: 3336-58-1)	< 0.01%	99.8%
Hexamethoxyphosphazene (CAS NO.: 957-13-1)	< 0.01%	99.0%
Hexakis(2,2-Difluoroethoxy)Phosphazene (CAS NO.: 186817-57-2)	< 0.01%	99.0%
Hexakis(1H, 1H, 3H-Tetrafluoropropoxy)Phosphazene (CAS NO.: 58943-98-9)	< 0.01%	99.0%
Hexakis(1H, 1H, 5H-Octafluoropentoxy)Phosphazene (CAS NO.: 16059-16-8)	< 0.01%	98.0%
Hexakis(1H, 1H, 7H-Dodecafluoroheptoxy)Phosphazene (CAS NO.: 3830-74-8)	< 0.01%	97.0%
Hexakis(1H, 1H, 9H-Perfluorononyloxy)Phosphazene (CAS NO.: 186043-67-4)	< 0.01%	99.0%
Tris (heptafluoropropyl)-S-Triazine (CAS NO.: 915-76-4)	< 0.01%	98.0%
<b>Solvent Composition:</b>		
Acetonitrile (CAS NO.: 75-05-8)	95.0%	HPLC grade 99.9%
DI Water (CAS NO.: 7732-18-5)	5.0%	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 or Chromatogram: Fragmentation Pattern



# **Agilent 1100 Series LC system:**G1354A Quaternary Pump (includes degasser) G1313A Automatic liquid Sampler (ALS)

Agilent 1100 Series LC/MSD: G1946D LC/MSD SL G1948A API-Electrospray source G1947A APCI source

#### **G2421A Electrospray Tuning Calibrant**

Column: None Column Temp: N/A Flow Rate: 0.4ml/min

Mobile Phase: 75:25 Acetonitrile/Water Ionization Mode: Positive Electrospray

Nebulizer Pressure: 40 psi Drying Gas Flow: 10L/min Drying Gas Temp: 350 deg C

Scan Range: 50-3000 Step Size: 0.15amu

## PRINCIPLE IONS

MASS	POS	NEG
1	118.09	112.99
2	322.05	431.98
3	622.03	601.98
4	922.01	1033.99
5	1521.97	1633.95
6	2121.93	2233.91
7	2721.89	2833.87

**Date of Manufacture:** 16 APRIL 2014 **Date of Expiration**: 16 APRIL 2016

Duane Funk Quality Manager Supelco, Inc

Duane Funk





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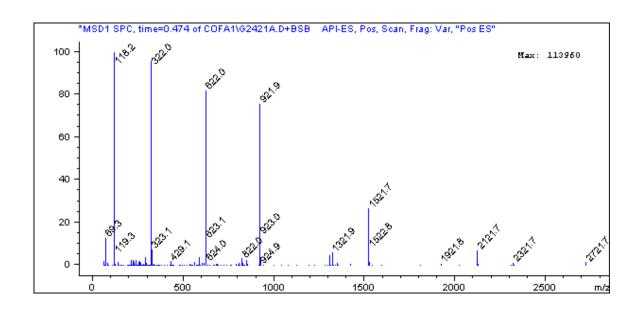
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