

CERTIFICATE OF ANALYSIS

APCI-L Low Concentration Tuning Mix 100ml

Agilent Part Number: G1969-85010 Sample Lot Number: LC03503

Concentration (weight to volume) and Purity/Grades

Neat Material	Gravimetric Conc.	Neat Material Purity and/or Grade
Purine (CAS NO: 120-73-0)	<0.001	99.9%
Tris(trifluoromethyl)-1, 3, 5-triazine (CAS NO.: 368-66-1)	<0.001	98.8%
Hexamethoxyphosphazine (CAS NO: 957-13-1)	<0.001	99.0%
Hexakis(2,2-difluoroethoxy)phosphazine (CAS NO: 186817-57-2)	<0.001	99.0%
Hexakis(1H, 1H, 3H-tetrafluoropropoxy)phosphazine (CAS NO: 58943-98-9)	<0.001	99.0%
Hexakis(1H, 1H, 5H-octafluoropentoxy)phosphazine (CAS NO: 16059-16-8)	<0.001	98.0%
Hexakis(1H, 1H, 7H-dodecafluoroheptoxy)phosphazine (CAS NO: 3830-74-8)	<0.001	97.0%
Hexakis(1H, 1H, 4H-hexafluorobutyloxy)phosphazine (CAS NO.: 186406-47-3)	<0.001	94.0%
Hexakis(1H, 1H, 6H-decafluorohexyloxy)phosphazine (CAS NO.: 186406-48-4)	<0.001	95.0%

Solvent Composition:

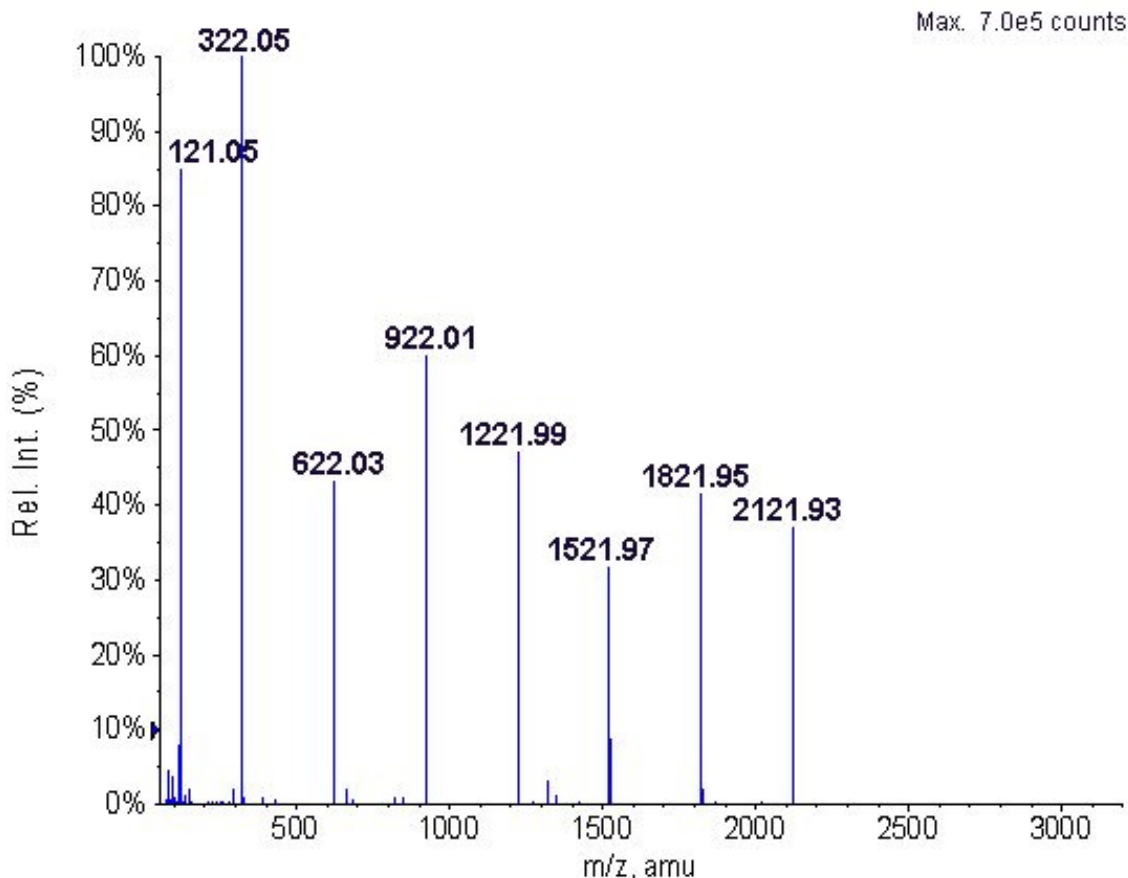
Acetonitrile (CAS NO: 75-05-8)	85.0%	HPLC grade 99.9%
Methanol (CAS NO: 67-56-1)	14.0%	HPLC grade 99.9%
Chloroform (CAS NO: 67-66-3)	1.0%	HPLC grade 99.9%

Traceability:

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.

This standard has been produced gravimetrically using ISO9001 quality procedures. ES-Mass spectrometry was used to evaluate this multi-standard solution.

Pos APCI-TOF Spectra



Sample: G1969-85010

Instrument: Agilent G1969A API-TOF MS

Mode: APCI

Polarity: Positive ion mode

CDS infusion rate: 0.10 ml/min

Vcap: -4.5 kV

Icor: 4μA

Fragmentor: 215 V

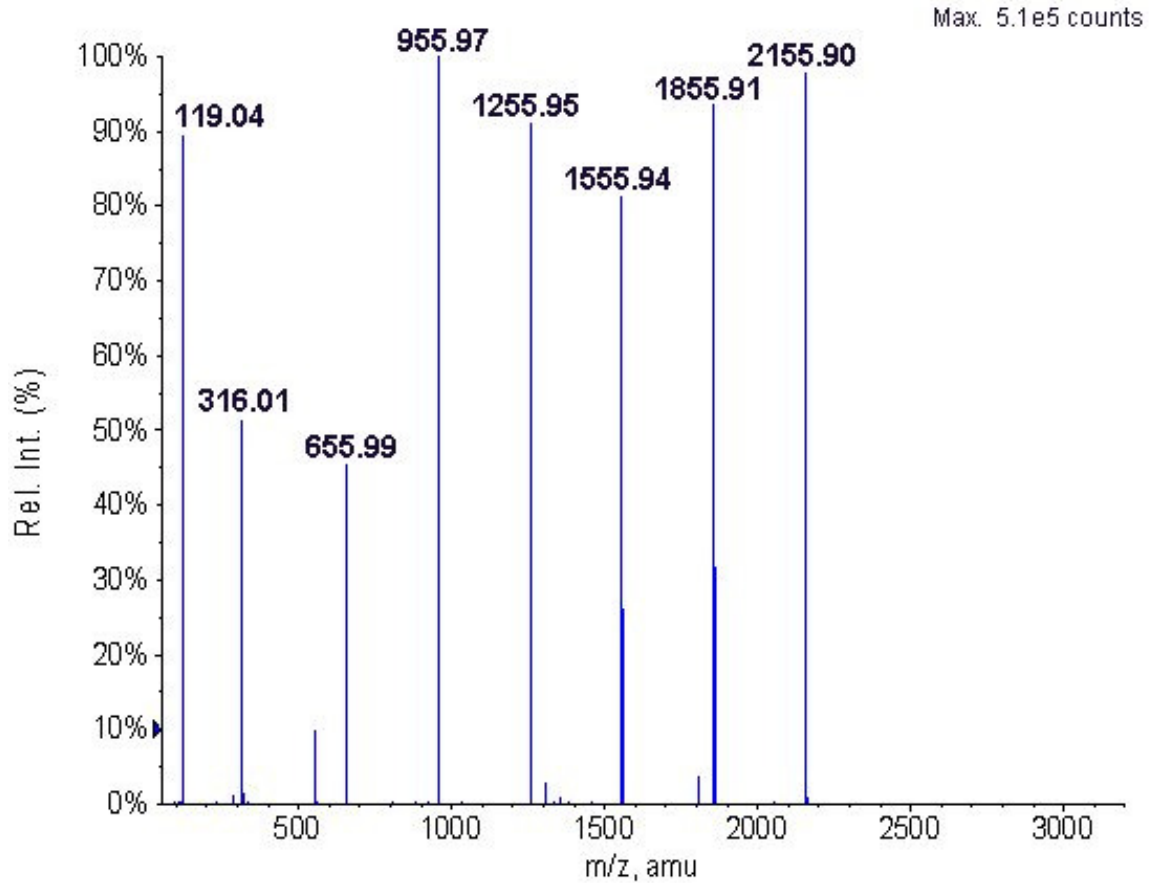
Nebulizer pressure: 20 psig

Vaporizer: 350 °C

Drying gas flow: 4 L/min

Drying gas temperature: 325 °C
MCP: 650 V
PMT: 626 V
Scan range: m/z 50-3200
Transients: 10,000
Flight tube: -6.5 kV
Oct. RF: 250 V pk

Neg APCI-TOF Spectra



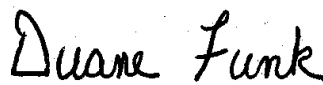
Sample: G1969-85010
Instrument: Agilent G1969A API-TOF MS
Mode: APCI
Polarity: Negative ion mode
CDS infusion rate: 0.10 ml/min
Vcap: -4.5 kV
Icor: 4µA
Fragmentor: 175 V
Nebulizer pressure: 20 psig
Vaporizer: 350 °C

Drying gas flow: 4 L/min
Drying gas temperature: 325 °C
MCP: 625 V
PMT: 638 V
Scan range: m/z 50-3200
Transients: 10,000
Flight tube: -6.5 kV
Oct. RF: 250 V pk

PRINCIPAL IONS

MASS	POS	NEG
1	121.050873	119.036320
2	322.048121	316.013789
3	622.028960	655.991085
4	922.009798	955.971923
5	1221.990637	1255.952761
6	1521.971475	1555.933600
7	1821.952313	1855.914438
8	2121.933152	2155.895277

Manufacture Date: 02 OCTOBER 2013
Expiration Date: 02 OCTOBER 2014



Duane Funk
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