

Pierce Triple Quadrupole Calibration Solution, Extended Mass Range

Product Number: 88340 Lot Number: 3212127 Expiration: March 11, 2026

Summary:

The Thermo Scientific™ Pierce™ Triple Quadrupole Calibration Solution, Extended Mass Range, is a ready-to-use liquid formulation for the calibration of all Thermo Scientific triple quadrupole mass spectrometers. The only additional materials needed are a 500µL Hamilton syringe and a liquid infusion line, both supplied with the instrument.

Visual:

Clear, colorless liquid

Components	Accurate Mass (m/z)	Specification (neat)	Results
*LC-MS grade acetonitrile (92% v/v)		Purity ≥ 99.9%	Pass
*LC-MS grade water (4% v/v)		LC-MS Grade	Pass
*LC-MS grade 2-propanol (4% v/v)		Purity ≥ 99.9%	Pass
LC-MS grade acetic acid	59.0139 ^{b(-)}	Purity ≥ 99.7%	Pass
Imidazole	69.0447 ^{a(+)}	Purity ≥ 99.0%	Pass
Triethylamine	102.1277 ^{a(+)}	Purity ≥ 99.5%	Pass
Trifluoroacetic acid (TFA)	112.9856 ^{b(-)}	Purity ≥ 99.5%	Pass
Tetramethylpiperidine	142.1590 ^{a(+)}	Purity ≥ 97.5%	Pass
1,8-Bis(dimethylamino) naphthalene	215.1543 ^{a(+)}	Purity ≥ 98.5%	Pass
2,4,6-Tris(trifluoromethyl)- 1,3,5-triazine	301.9981 ^{c(-)}	Purity > 97.0%	Pass
Hexamethoxyphosphazene	322.0481 ^{a(+)}	Purity ≥ 99.0%	Pass
2,4,6-Tris(heptafluoropropyl)- 1,3,5-triazine	601.9779 ^{c(-)}	Purity ≥ 95.0%	Pass
Hexakis(2,2-difluoroethoxy) phosphazene	622.0290 ^{a(+)}	Purity ≥ 97.0%	Pass
Hexakis(2,2,3,3- tetrafluoropropoxy) phosphazene	922.0098 ^{a(+)} , 1033.9881 ^{d(-)}	Purity ≥ 95.0%	Pass
Hexakis(1h,1h,5h- octafluoropentoxy) phosphazene	1521.9715 ^{a(+)} , 1633.9498 ^{d(-)}	Purity ≥ 95.0%	Pass
Hexakis(1h,1h,7h- perfluoroheptoxy) phosphazene	2121.9331 ^{a(+)} , 2233.9115 ^{d(-)}	Purity ≥ 95.0%	Pass
Hexakis(1h,1h,9h- perfluorononyloxy) phosphazene	2721.8948 ^{a(+)} , 2833.8731 ^{d(-)}	Purity ≥ 95.0%	Pass
a[M+H] ⁺			

^{&#}x27;[M+H]

Important Product Information:

- Allow the solution to warm to room temperature prior to use.
- · For best results, use a dedicated syringe and infusion line. Before and after calibration, flush the syringe and infusion line with 1:1 water/acetonitrile solution to clean.
- · Infuse the calibration solution for a minimum of 20 minutes with the instrument scanning before initiating the calibration routine.
- Approximately 500µL of solution are required for complete calibration in each ion polarity mode.

Storage:

Upon receipt store at 4 °C.

Compatible with these Thermo Scientific™ Instruments:

TSQ Quantum™ Series#

TSQ Discovery™ Series#

TSQ Quantum Ultra™ Series#

TSQ Quantum Access™ Series#

TSQ Vantage™ Series#

TSQ Endura™ Series

TSQ Quantiva™ Series

TSQ Fortis™ (Plus) Series

TSQ Altis™ (Plus) Series

TSQ Quantis™ (Plus) Series

Positive mode: 69.0447, 142.1590, 322.0481, 622.0290, 922.0098 Negative mode: 68.9947, 112.9856, 301.9981, 601.9779, 1033.9881

Additional information:

For MSDS please visit www.thermoscientific.com/pierce

For calibration procedure use: TSQ Series Getting Started Guide

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^ь[Μ-H]

CIM+OHI

^d[M+TFA]

^{*}Combined concentration of all other components listed is less than 1% w/v

[#] Use the list below of recommended masses for calibration of these instruments.



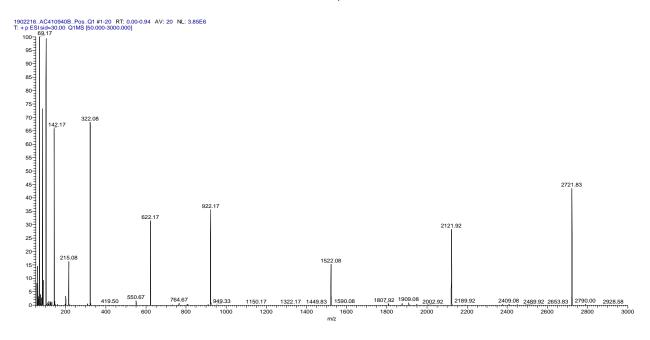
Technical Support:

For hardware related support call 1-800-532-4752 For reagent support call 1-800-874-3723

Analysis	Specification	Results
Positive Mode Target Ions (m/z)	No ions present at +/- 10 m/z with relative intensity >20% of the target ion:	
69, 102, 142, 215, 322, 622, 922, 1522, 2122, 2722	69, 102, 142, 215, 322, 622, 922, 1522, 2122, 2722	Pass
	09, 102, 142, 213, 322, 022, 922, 1322, 2122, 2122	
Negative Mode Target Ions (m/z)	No ions present at +/- 10 m/z with relative intensity >20% of the target ion:	
69 ^a , 113, 302, 602, 1033, 1633, 2233, 2833	69, 113, 302, 602, 1034, 1634, 2234, 2834	

^aAn in-source, fragmentation-product ion of trifluoroacetate

Positive Ion Mode, 50-3000 m/z



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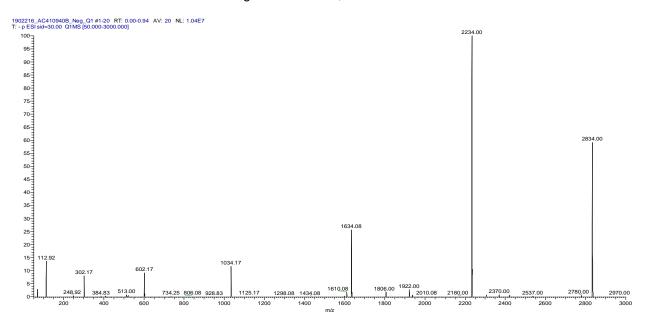
Pierce Biotechnology 3747 N. Meridian Road (800) 874-3723 tel

(815) 968-7316 fax www.thermoscientific.com/pierce

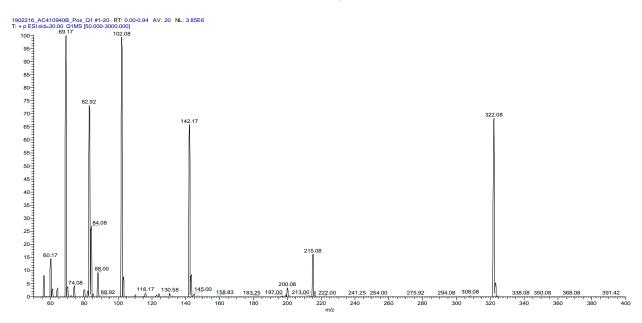
(815) 968-0747 tel Rockford, IL 61101 USA



Negative Ion Mode, 50-3000 m/z



Positive Ion Mode, 50-400 m/z



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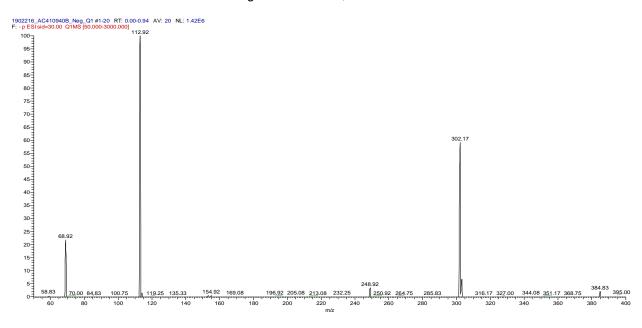
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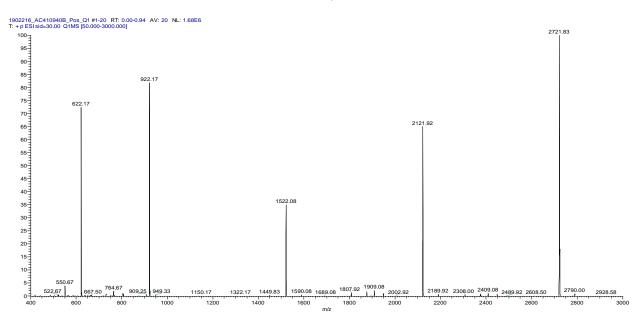
(815) 968-7316 fax



Negative Ion Mode, 50-400 m/z



Positive Ion Mode, 400-3000 m/z



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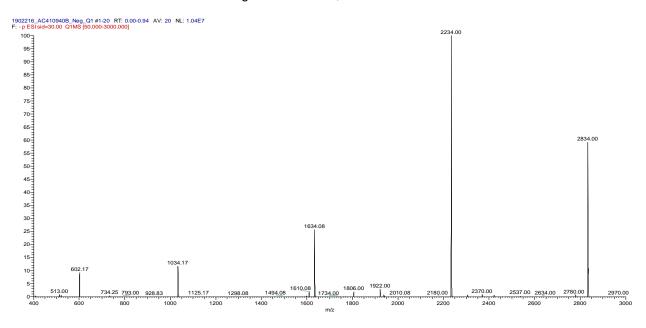
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Pierce Biotechnology



Negative Ion Mode, 400-3000 m/z



Spectra were acquired on a Thermo Scientific™ TSQ Quantis™ Triple Quadrupole Mass Spectrometer.

Publish Date: 15-May-2025 Timothy Morton, Sr. Quality Chemist, Mass Spectrometry

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