

SPHERICAL®

universal calibrants for MALDI

Series of monodisperse calibrants consisting of 4 well-spaced calibration points in each vial, allowing users to increase the frequency and quality of their MALDI calibrations.

SpheriCal® Calibration Kits

Polymer Factory offers easy-to-use standards that simplify and accelerate calibration. Our standards have raised the bar for mass precision and measurement accuracy, both for routine characterization and facile optimization for more specific applications.

SpheriCal® Aqua Calibration Kits

SpheriCal® Aqua, Polymer Factory's latest addition to our line of calibration standards, is compatible with water as a solvent, reducing the cost of calibration and allowing users in biological sciences to avoid undesirable organic solvents. Each kit contains four well-spaced calibration points.

Mix vs Neat

Our SpheriCal® standards come in both Mix and Neat forms. Choose from either SpheriCal® Mix standards that are supplied as pre-mixed solids containing standards, matrix and counter ion in its optimal ratio. With SpheriCal® Neat, you have the flexibility to optimize calibration with matrices and solvents of your choice.

Why choose SpheriCal®?

- **Outstanding compatibility with matrices and solvents**

SpheriCal® has proven to be compatible with all common MALDI matrices and almost every solvent, making it as flexible as you need it to be.

- **High long-term stability with multi-year shelf-life – even after make up in solution**

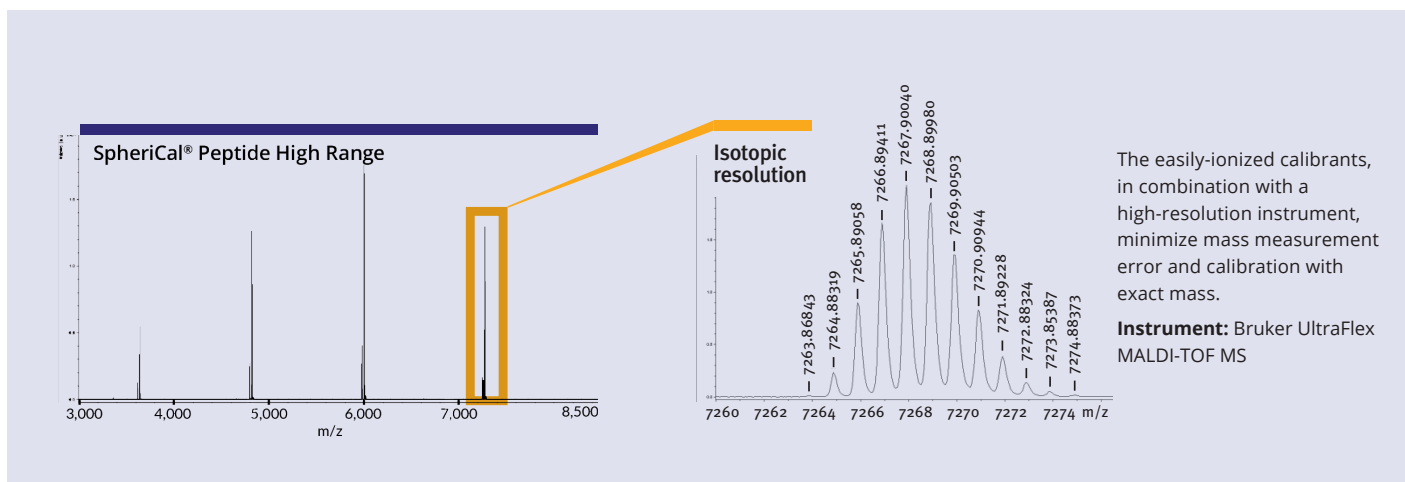
SpheriCal® is stable at room temperatures and when exposed to air. Avoids all the problems associated with less stable protein calibrants.

- **The most accurate results**

SpheriCal® covers each mass range with evenly spaced, monoisotopic calibration points for the most accurate calibration.

HIGH ACCURACY
LONG SHELF LIFE
EASY-TO-USE





The easily-ionized calibrants, in combination with a high-resolution instrument, minimize mass measurement error and calibration with exact mass.

Instrument: Bruker UltraFlex MALDI-TOF MS

Typical MALDI-ToF calibration results for SpheriCal® calibrants - Note the outstanding isotopic peak resolution of the high-range mix.

Product and ordering information

SpheriCal is provided in various molecular weight ranges. Each product vial is sufficient for at least 25 calibrations.

Product name	Mol. Wt. range	Available in	Price (€)
SpheriCal® Peptide Low Range	500 - 1,600 Da	Mix, Neat	255
SpheriCal® Peptide Medium Range	1,600 - 3,500 Da	Mix, Neat	255
SpheriCal® Peptide High Range	3,500 - 7,500 Da	Mix, Neat	255
SpheriCal® Protein Low Range	7,500 - 15,000 Da	Mix, Neat	255
SpheriCal® Protein Medium Range	15,000-30,000 Da	Mix, Neat	255

Product name	Mol. Wt. range	Available in	Price (€)
SpheriCal® Kit* Low Range	500 - 7,500 Da	Mix, Neat	688
SpheriCal® Kit* High Range	7,500 - 30,000 Da	Mix, Neat	688
SpheriCal® Kit* Ultimate Range	500 - 30,000 Da	Mix, Neat	1020

*SpheriCal can also be purchased as a kit of 3 or 5 vials covering a combined broader mass range

Product name	Mol. Wt. range	Available in	Price (€)
SpheriCal® Aqua Peptide Low Range	500 - 1,000 Da	Mix, Neat	255
SpheriCal® Aqua Peptide Medium Range	1,000 - 2,500 Da	Mix, Neat	255
SpheriCal® Aqua Peptide High Range	2,500 - 5,200 Da	Mix, Neat	255
SpheriCal® Aqua Protein Low Range	5,200 - 11,000 Da	Mix, Neat	255

Scientific References

1. The identification of synthetic homopolymer end groups and verification of their transformations using MALDI-TOF mass spectroscopy. Yeija Li, Jessica N. Hoskins, Subramanya G. Sreerama, Michael A. Grayson and Scott M. Grayson. *J. Mass Spectroscopy*, 2010, 45, 587-611.
2. MALDI-TOF Mass Spectral Characterization of Polymers Containing an Azide Group: Evidence of Metastable Ions. Yeija Li, Jessica N. Hoskins, Subramanya G. Sreerama and Scott Grayson. *Macromolecules*, 2010, 43, 6225-6228.

Patent, licensing and trademark information

The technology used in SpheriCal® calibrants is covered by IPR protection held by Tulane University, New Orleans, USA, and Perstorp AB, Sweden. Polymer Factory Sweden AB holds the exclusive worldwide right and license to commercialize SpheriCal® calibrant technology. SpheriCal® is a trademark owned by Polymer Factory Sweden AB and registered within the EU.

About Polymer Factory

Founded in 2006 at the Royal Institute of Technology in Stockholm, Sweden, Polymer Factory is today a leading provider of advanced dendritic and polymeric materials, plus a contract research company. Polymer Factory holds the exclusive production, marketing and sales rights of several advanced materials. Its business strategy includes developing future ground-breaking dendritic and polymeric materials in close collaboration with clients in the pharmaceuticals and semiconductors sector.



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