

MassFERENCE™ P2

Refeyn's calibration standards are a reliable tool for mass photometry calibrations, offering maximum precision with minimum hassle. The MassFERENCE P2 protein standard is recommended for use with AAV-containing samples with masses ranging from 670 kDa to 5 MDa measured on the SamuxMP or SamuxMP Auto mass photometers.

Calibrants in mass photometry

Mass photometry measures the interference between the light scattered by individual biomolecules in a sample and the light reflected by the measurement surface. As this signal, known as contrast, scales with mass, it is possible to calculate the mass of the biomolecules in the sample from the interferometric signal by using molecules of known mass (calibrants) as a reference.

Refeyn's calibration solutions

To streamline mass photometry measurement workflows, Refeyn offers MassFERENCE, bespoke calibration standards for mass photometry. MassFERENCE calibrants cover broad molecular mass ranges and are compatible with a wide range of standard buffers. They are ready to use out of the box, requiring only a simple dilution. Refeyn's MassFERENCE calibration standards are simple to prepare and provide a standardized reference to increase replicability across experiments, instruments and labs.

MassFERENCE P2

MassFERENCE P2 is designed to calibrate mass photometry measurements of AAV-containing samples with masses ranging from 670 kDa to 5 MDa. It is recommended for use with the SamuxMP line of mass photometers.

This calibrant contains a standard protein species of 3640 kDa (Fig. 1). As the contrast-to-mass relationship is linear throughout the relevant range, a single reference point gives accurate mass conversion. MassFERENCE P2 comes in a box containing three vials of calibrant in dry form, each sufficient for 10 calibrations when reconstituted (Fig. 2).

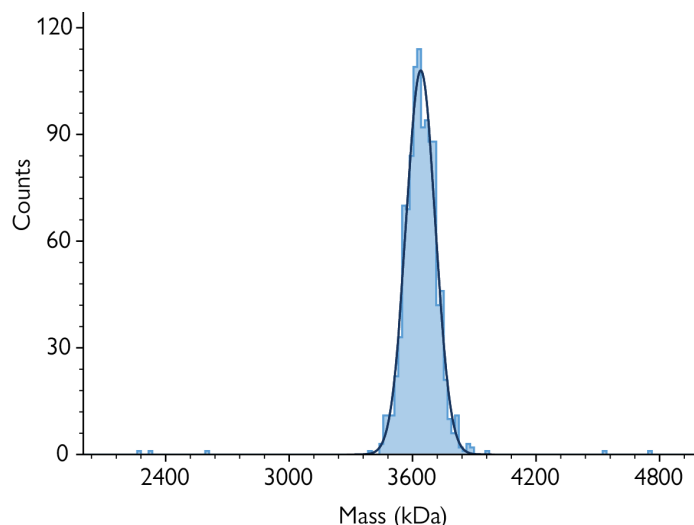


Fig. 1. Mass distribution of MassFERENCE P2. A single standard molecular species of 3640 kDa provides a reference for AAV-containing samples with a mass range of 670 kDa – 5 MDa.



Fig. 2. MassFERENCE P2. The MassFERENCE P2 calibrant comes in a box containing three vials of calibrant in dry form.

Technical specifications

Mass	3640 kDa
Sample	670 kDa – 5 MDa AAV samples, measured with the Samux™ instrument line
Storage	Dried calibrant stable for 9 months at 4°C Solution stable for 5 days at 4°C

How to use

For detailed usage instructions, download the consumables user guide available at [Refeyn.com](https://www.refeyn.com)

How to buy: The MassFERENCE P2 calibrant for the SamuxMP and SamuxMP Auto is available for purchase as **(MP-CON-41015)**

Related products

To optimize mass photometry measurements, Refeyn provides MassGlass™ UC sample carrier slides, available in sample preparation kits for the SamuxMP **(MP-CON-21022)** and for the SamuxMP Auto **(MP-CON-21023)**.

To facilitate slide placement, Refeyn provides sample alignment kits for the SamuxMP **(MP-CON-21019)** and for the SamuxMP Auto **(MP-CON-21020)**.

For more information, visit the [Refeyn website](https://refeyn.com) or send an inquiry to orders@refeyn.com.