

MassGlass UC Sample Carrier Slides

Refeyn's MassGlass® UC Sample Carrier Slides are clean, uncoated glass slides for mass photometry measurements.

Applications:

- Protein samples on MyMassMP, TwoMP, or TwoMP Auto
- Adeno-associated virus (AAV) samples on SamuxMP or SamuxMP Auto

Sold in Refeyn Sample Prep Kits (see next page for details on kits and ordering).

Why MassGlass UC?

Mass photometry measures the mass of single molecules and viral particles by measuring the interferometric scattering signal they generate when they land on a glass surface. Because this signal is extremely small, surface quality has a direct impact on measurement quality. Even minor surface variations – such as residues, micro-abrasions, or dust particles – can increase background noise or cause unexpected particle landing behavior, both of which compromise performance and measurement accuracy.

MassGlass UC slides are prepared and packaged by Refeyn under strict conditions to deliver an ultra-clean, uniform measurement surface. Every slide meets the same strict surface standard, eliminating variability between users or preparation steps as a source of experimental error.

Using MassGlass UC slides ensures:

- Low background for sensitive signal detection*
- High reproducibility across experiments and users
- Guaranteed accuracy and precision across measurements

Figure 1. MassGlass UC Sample Carrier Slides.

Each package contains a box with 5 slides. Note: The package label can be peeled off and transferred to the box. Use the space available to note the date of opening.

Ready-to-use workflow

MassGlass UC slides work straight out of the box, requiring no special treatment for samples ≥ 50 kDa*. Using Refeyn's alignment tool, the cassette attaches precisely to the slide for consistent sample positioning, and the assembled slide and cassette can be placed directly on the instrument for immediate measurement.

For more information on how to assemble the slide and cassette, refer to the Consumables User Guide for your instrument. For MyMassMP, you can also refer to the guided workflow, Help and FAQs in the instrument's software.

- Consumables User Guide for MyMass®
- Consumables User Guide for TwoMP and TwoMP Auto
- Consumables User Guide for Samux® and Samux® Auto



MassGlass UC Sample Carrier Slide Specifications

Note: MassGlass UC Sample Carrier Slides are also referred to as 'cover slips' in some Refeyn software and documentation.

Important handling notes

- Both sides of MassGlass slides are suitable for mass photometry. Due to potential outgassing from the packaging, for the outermost slides, position the side that faced inward in the box so that it is in contact with the sample well cassette and your sample.
- Open the box in a clean environment and handle slides carefully to avoid particle build-up. Avoid touching the slide surface directly to preserve cleanliness and ensure optimal measurement quality.

Compatible sample types	Proteins, AAVs
Compatible instruments	TwoMP & TwoMP Auto MyMassMP SamuxMP & Samux MP Auto
Storage	18–25 °C
Mass range	TwoMP & TwoMP Auto: 50 kDa* – 5 MDa SamuxMP & SamuxMP Auto: 500 kDa – 6 MDa MyMassMP: 55 kDa – 3MDa
Shelf life	6 months from date of manufacture (unopened); use within 1 month of opening – whichever is earlier. Minimum shelf life upon shipment: 2 months from the date of dispatch.

*For samples ≤ 50 kDa, some MassGlass UC slides may exhibit sufficiently low background noise for reliable measurements. However, to consistently achieve the lowest possible noise levels, additional manual cleaning of the slide is recommended. Please contact your Refeyn technical sales specialist or field applications specialist to receive the detailed cleaning protocol.

Enhanced packaging for assured slide quality

Since April 2026, MassGlass UC slides have featured a newly engineered packaging system offering stronger protection during transport and storage. Slides are now easier to access and remove without disturbing remaining units.

Package size has also been reduced from 10 to 5 slides to ensure users always work with fresh material, targeting the best performance and significantly reducing the risk of waste or exceeding the shelf-life window.



Figure 2. Opening the box. To open the slide box, hold it as shown and gently lift the lid.

Ordering information

MassGlass UC Sample Carrier Slides are sold in the following Refeyn Sample Prep Kits.

Product code	Product name	Compatible instruments	Kit contents
MP-CON-21022	MassGlass UC – Sample Prep Kit	TwoMP SamuxMP	• 2x MassGlass UC Sample Carrier Slides (5 slides per box, 10 slides total) • 10x 6-well sample well cassettes • Lens cleaning tissues
MP-CON-21023	MassGlass UC – Auto Sample Prep Kit	TwoMP Auto SamuxMP Auto	• 2x MassGlass UC Sample Carrier Slides (5 slides per box, 10 slides total) • 10x 24-well sample well cassettes • Lens cleaning tissues
MP-CON-21031	MyMassMP Sample Prep Kit	MyMassMP	• 2x MassGlass UC Sample Carrier Slides (5 slides per box, 10 slides total) • 10x 4-well sample well cassettes for MyMassMP • Lens cleaning tissues

To order MassGlass UC slides or request a quote, visit the Refeyn e-shop at refeyn.com/eshop



Related products

To facilitate cassette alignment on the slide, Refeyn offers the following alignment kits:

- MP – Alignment Kit (MP-CON-21019) for the TwoMP and SamuxMP
- MP Auto – Alignment Kit (MP-CON-21020) for the TwoMP Auto and SamuxMP Auto
- MyMassMP Alignment Kit (MP-CON-21030) for MyMassMP

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