

## ProPlate™ Slide Modules

### Introduction

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ProPlate™ slide modules (Cat. nos. P37007, P37009, Figure 1) integrate microscope slide-based array technology with automated microtiter plate processing. Sixteen individual arrays can be assayed per slide without the use of adhesive. Four slides fit into a tray, producing a modular plate with a standard microtiter plate footprint and well spacing allowing automated robotic processing of 64 arrays. The 9 mm center to center well spacing facilitates use with multichannel pipettors. The 7 × 7 mm square wells are ideal for high content arrays and accommodate 15–350 µL well volumes. Slides can be assembled easily for processing and disassembled quickly for reading with conventional microarray readers due to adhesive free, snap-clip design. The removable seal-strips facilitate mixing and eliminate evaporation.

The ProPlate™ multi-array system (Cat. no. P37004, Figure 2) allows integration of microscope array technology with automated microtiter plate processing. Individual modules, covered with seal strips (Cat. no. P37002), fit into a tray (Cat. no. P37003), producing a modular plate with a standard microtiter plate footprint, and well spacing facilitating the use of multichannel pipettes. The modular design allows loading of 1–4 slides per tray for plate washing and reading. Individual ProPlate™ modules may also be processed by hand without the use of the tray. The large well volumes and isolation of 16 individual arrays (2 × 8) on a single microscope slide is particularly well suited for proteomics applications, including protein expression analysis, protein-protein interactions, antibody profiling, and HTP automated analysis of multiple proteins. The ProPlate™ system can also be used to process cDNA or oligonucleotide arrays.



**Figure 1.** ProPlate™ slide module.



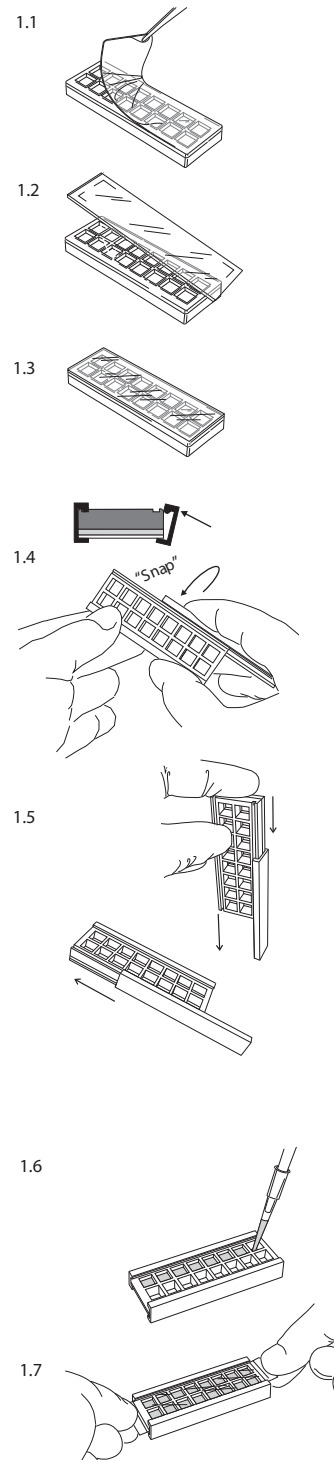
**Figure 2.** ProPlate™ Multi-Array slide module.

## How to Use

See Figure 3 for illustrated instructions.

- 1.1 Remove release liner to expose silicone gasket.
- 1.2 Place microscope slide (array side down) over silicone gasket, aligning edges of slide with the edges of the upper structure.
- 1.3 Press gently on back side of the slide to adhere slide to gasket.
- 1.4 Place clip onto slide/upper structure assembly by snapping onto long edge of module. Grasping the assembly, place the flat inner edge of the clip over the glass slide, and press the clip into the groove in the upper structure surface.
- 1.5 Slide clip until ends are flush with the assembly. Alternatively, clips may be pressed against the bench top to facilitate application. Repeat assembly steps for each clip.
- 1.6 Add reagents to each well. The 9 mm center to center well spacing facilitates use with multichannel pipettors.
- 1.7 After filling, wells may be covered to prevent evaporation. Using ProPlate™ Seal Strips, remove the white liner from seal strip.

Apply exposed adhesive side of seal strip to wells aligning edge of strip with clips.



**Figure 3.** Using ProPlate™ slide module.

- 1.8 Using seal strip applicator, smooth seal strip surface to remove bubbles, ensuring a leak-free seal.
- 1.9 After incubation, seal strip may be removed by peeling it off. Module may be resealed using a fresh seal strip. Ensure that the well surface is dry before application.
- 1.10 Clips are easily removed by pulling clips away from the slide side of module.
- 1.11 Arrayed slide can simply be removed for analysis in a microarray reader.

ProPlate™ tray holds up to four modules, resulting in a plate with standard microtiter plate footprint and well spacing for use with plate washers and readers (Figure 2).

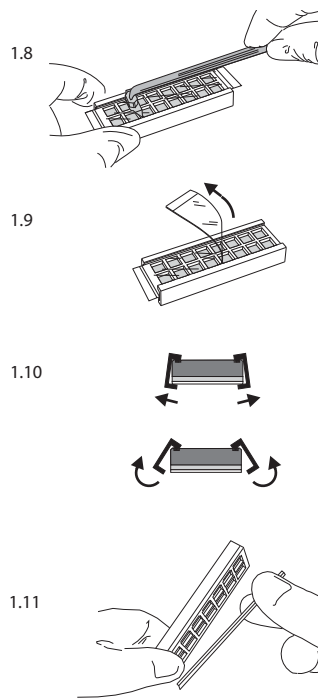


Figure 3, continued. Using ProPlate™ slide module.

**Product List** Current prices may be obtained from our website or from our Customer Service Department.

| Cat. no. | Product Name   | Unit Size |
|----------|--|-----------|
| P37001   | ProPlate™ multi-array slide module *disposable 16 well slide cover, 2 clips* *set of 2*                                    | 1 set     |
| P37002   | ProPlate™ adhesive seal-strips *set of 50 seal-strips and one applicator*  | 1 set     |
| P37003   | ProPlate™ tray and cover *includes one tray and cover*   | 1 set     |
| P37004   | ProPlate™ multi-array system *includes four 16-well slide modules, one tray and cover, ten seal-strips and one applicator* | 1 set     |
| P37006   | ProPlate™ tray and cover for spring clip slide modules *reusable holds up to 3 slide modules, includes one tray and cover* | 1 set     |
| P37007   | ProPlate™ slide module *disposable 8 well slide cover, 2 clips* *set of 2*   | 1 set     |
| P37008   | ProPlate™ stainless steel spring clips *reusable, for slide modules* *set of 2*  | 1 set     |
| P37009   | ProPlate™ slide module *disposable 4 well slide cover, 2 clips* *set of 2*   | 1 set     |

## Contact Information

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