SpectraDrop Micro-Volume Microplate Quick Start Guide

Introduction

The SpectraDrop Microplate (formerly μ Max) uses sample slides that can be reused or replaced to enable micro-volume measurements in compatible Molecular Devices® microplate readers.

The contents of the SpectraDrop Microplate kit depend on kit type.

Description	Details
SpectraDrop Starter Kit	Contains one microplate adapter, two 24-well micro-volume bottom slides, and one of each cover slide (2µL and 4µL)
SpectraDrop High Throughput Screening (HTS) Kit	Contains one microplate adapter, five 24-well micro-volume bottom slides, five 64-well micro-volume bottom slides, and five of each cover slide (2µL and 4µL)

This guide gives basic procedures to help you prepare and use the SpectraDrop Microplate.

Preparing a SpectraDrop Microplate for a Measurement

For any measurement, the SpectraDrop Microplate uses the microplate adapter, a micro-volume slide, and a cover slide (Figure 1-1).

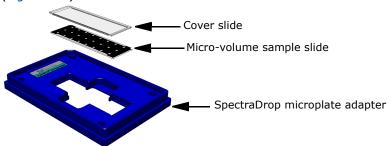


Figure 1-1 Required SpectraDrop Microplate parts

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To prepare a SpectraDrop Microplate for a measurement:

1. Insert a clean micro-volume slide into the slide seat of the plate adapter, matching the chamfered corners of the slide and the A1 corner of the plate adapter (Figure 1-2).



Note: The micro-volume slide sits flat in the adapter when inserted properly.

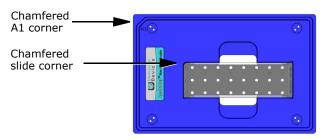


Figure 1-2 Match chamfered corners of slide and adapter

2. Pipette your sample solution onto the micro-volume slide in the marked well positions.

The pipette volume corresponds to the cover slide.

- Use 2 µl solution volume with the clear colored 0.5 mm path length cover slide.
- Use 4 µl solution volume with the blue colored 1.0 mm path length cover slide.
- **3.** Place a cover slide on top of the micro-volume slide with the path length strips facing down (0.5 mm or 1.0 mm path length).
- **4.** Place the plate adapter into the open microplate drawer of your microplate reader with the chamfered corner in the A1 position.
- **5.** Close the microplate drawer of the microplate reader, and run an experiment.

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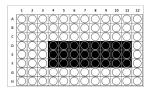
Running a Micro-Volume Experiment

The following section describes how to run a micro-volume experiment using SoftMax® Pro Software and a compatible microplate reader. For specific procedures, refer to the documentation for your microplate reader and SoftMax Pro Software.

To perform a micro-volume experiment:

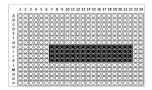
- Select a SpectraDrop, or MicroMax in older software, protocol, from the Protocol Library or Protocol home page.
- **2.** Edit and save the protocol as required for your experiment.
- Run your experiment.

If you have to manually align a micro-volume slide, refer to the following details (Figure 1-3 and Figure 1-4):



96-well microplate compatible Well read area range: D4 to F11

Figure 1-3 24-Well Micro-Volume Sample Slide



384-well microplate compatible Well read area range: H7 to K22

Figure 1-4 64-Well Micro-Volume Sample Slide

Approved Sample Slide Cleaning Methods

Molecular Devices recommends cleaning the sample slides and the cover slides using the following methods in order of preference:

- 1. Dry wipe clean using a lab wipe tissue.
- 2. Wet wipe clean using a lab wipe tissue and water or organic solvent such as acetone, methanol, or ethanol. Avoid using strong acids or alkali solvents because they will damage the slide mask.
- Autoclave.

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Ordering Information

Contact your Molecular Devices Sales Representative to order the following replacement parts.

Part Number	Description	Details
0200-6262	SpectraDrop Starter Kit	Contains one microplate adapter, two 24-well micro-volume bottom slide, and one of each cover slide (2µL and 4µL)
0200-6267	SpectraDrop High Throughput Screening (HTS) Kit	Contains one microplate adapter, five 24-well micro-volume bottom slides, five 64-well micro-volume bottom slides, and five of each cover slide (2µL and 4µL)
0200-6263	SpectraDrop Micro-Volume Refills, 24-Well Bottom Slides	Three micro-volume 24-well bottom slides
0200-6264	SpectraDrop Micro-Volume Refills, 64-Well Bottom Slides	Three micro-volume 64-well bottom slides
0200-6265	SpectraDrop Micro-Volume Refills, 2µL Cover Slides	Three 2µL top slides (0.5 mm clear path length)
0200-6266	SpectraDrop Micro-Volume Refills, 4µL Cover Slides	Three 4µL top slides (1.0 mm blue path length)

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