



PRODUCT APPLICATION GUIDE

Using solid 96-well ELISA plates for multiple runs

Purpose: This guide will demonstrate the steps needed to run a solid-plate ELISA kit for more than one run. Customers with lower-volume testing in their laboratories may not have the sample load required to fill a plate. This procedure will allow up to three runs to be performed on one plate.

The goal of this protocol is to keep the unused wells dry. If moisture seeps into unused wells while assays are being run on another part of the plate, the unused wells may become damaged.

Materials: EnviroLogix ELISA Kit in solid-plate format
Thin-bladed knife or box cutter
Plate cover tape (such as Corning #6524)
Nunc-type manual strip washer
(Note: this procedure does not work with automated whole-plate washers or squeeze-bottle washing)

Procedure:

Run 1

1. Remove the plate from the foil pouch. Re-seal the pouch.
2. Cover the entire plate with the cover tape. Make sure that it is thoroughly sealed by pressing down at all contact points.
3. Using the knife, slit the cover tape to the right of or below the wells that are to be used. Remove this section of the cover tape, exposing the wells that will be used for the current assay. Make sure that the slit goes between the columns or rows without cutting into the unused wells. It is imperative that the unused wells remain tightly sealed – press the tape back down tightly on the cut edge.
4. Perform the assay as normal using the uncovered wells.
5. When washing, take care not to allow moisture to get under the cover tape or in the unused wells.
6. After reading plate, discard contents of the used wells, preferably via aspiration.
7. Re-seal the used portion of the plate with a fresh piece of plate cover tape. Mark it as “Used” with a marker.
8. Uncover the unused portion of the plate before re-storing the bag in the desiccated plate bag. It is important that the unused part of the plate is stored uncovered. Likewise it is important to re-seal the used part of the plate to minimize the risk of contaminating the unused wells.

Runs 2-3

Repeat the steps above, using a previously-unused part of the plate each time.