
Schleicher & Schuell

BioScience



**FAST[®] Frame Multi-Slide Plate
Protocol**

TABLE OF CONTENTS

I. Introduction	3
II. Method	3
A. Inserting the FAST Slide and Incubation Chamber Assembly	4
B. Removing the FAST Slide and Incubation Chamber Assembly	7
Ordering Information	Back Cover

The FAST Frame multi-slide plate is intended for research purposes only.

FAST® FRAME MULTI-SLIDE PLATE

I. INTRODUCTION

The FAST Frame multi-slide plate is designed to hold four, 16-pad FAST Slides and corresponding multi-well incubation chambers in a microplate footprint for high throughput processing of microarrays. The footprint dimensions meet the standards recommended by the Society of Biomolecular Screening.

The 96-well spacing (9 mm center to center) of the array pads on the FAST Slides makes the device compatible with automated liquid handling systems and 8-channel manual pipettors. Each plate is capable of processing up to 64 arrays at one time and is constructed from autoclavable plastic.

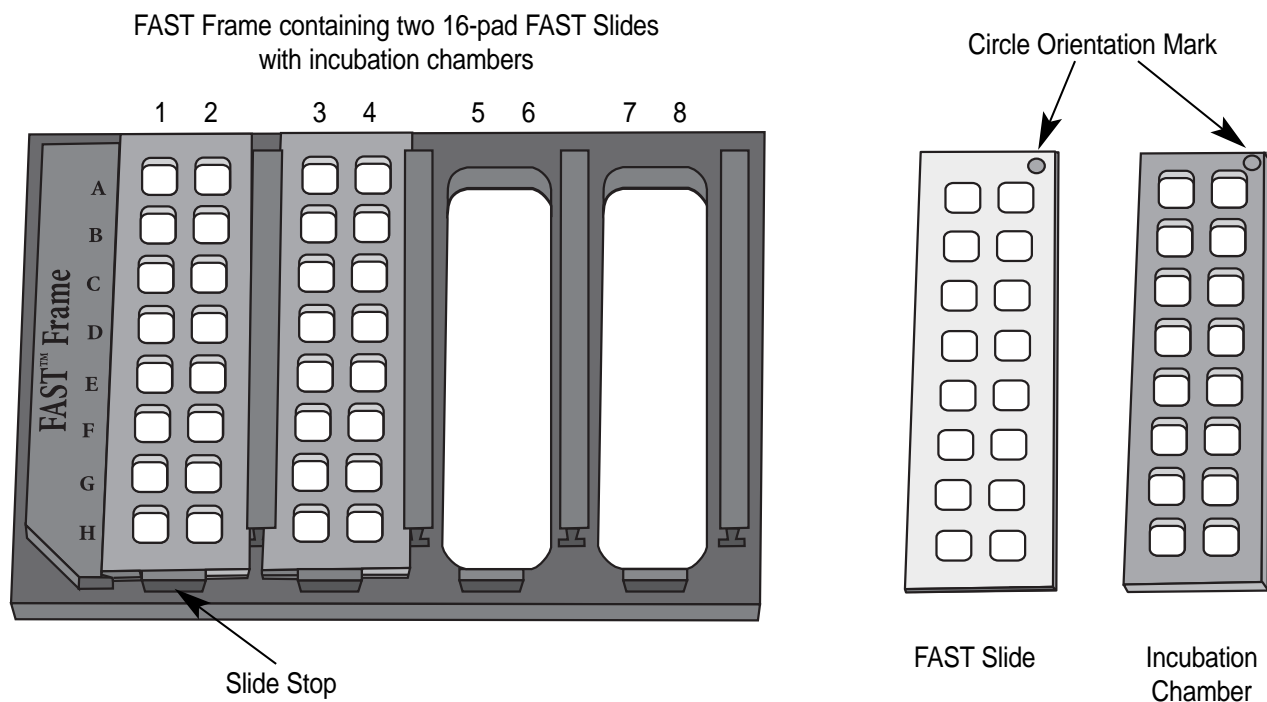
NOTE: The FAST Frame multi-slide plate is compatible with standard 1" x 3" glass slides when used with S&S 8 - and 16 - well chambers.

II. METHOD

NOTE: Wear gloves when inserting and removing the slide/chamber assemblies into the FAST Frame.

A. Inserting the FAST Slide and Incubation Chamber Assembly.

1. Place chamber on top of 16-pad FAST Slide. The chambers are marked for easy orientation with an indented circle in the upper right corner.
2. Hold the FAST Frame, rail-side up, in one hand and the slide/chamber assembly, chamber-side up, in the other hand.
3. Align the slide/chamber assembly with one of the four slide positions of the FAST Frame multi-slide plate.



4. Insert the slide/chamber assembly into the frame beneath the plastic side rails until it reaches the slide stop.
5. The loaded FAST Frame is ready for processing. Rows and columns are labeled for easy indexing and sample application. During incubation steps, the FAST Frame can be covered with a standard microplate lid to protect the contents of the wells. When working with very small volumes, and evaporation is a concern, it may be necessary to cover the individual slide/chamber assemblies with chamber covers.

NOTE: When using an automated liquid handling system, the program must be adjusted to account for the “skipped” positions on FAST Frame where the molded plastic rails hold the slide/chamber assemblies in place (please refer to the diagram on page 4). Review the manufacturer’s instructions to make the necessary adjustments.

NOTE: When using an automated liquid handling system (or 8-channel manual pipettor) with FAST Slides, care must be taken not to damage the nitrocellulose surface with the liquid handler’s tip. Therefore, always ensure the tip is not in contact with the nitrocellulose surface.

In addition, dispensing and aspirating rates may need adjusting if they are too forceful and cause damage to the nitrocellulose surface. For automated liquid handling systems, review the manufacture’s instructions to adjust these rates.



The FAST Frame holding three slide/chamber assemblies. A 16-pad FAST Slide and a 16-well incubation chamber are shown at the bottom right.

B. Removing the FAST Slide and Incubation Chamber Assembly.

Remove the slide/chamber assembly by pushing against the side of the glass slide in a location near the 'slide stop' on the FAST Frame. Continue to move the slide assembly out of the FAST Frame. Alternatively, the slide/chamber assembly can be removed by applying a slight downward pressure to the top of the chamber while moving the slide forward.

NOTE: For additional information on processing FAST Slides please refer to the protocol titled *Protein Arraying on FAST Slides*.

Ordering Information

Description	Qty/Pkg	Item #
FAST Frame Multi-Slide Plate	1	10 486 001
FAST Frame Starter Kit (includes)	1	10 486 003
FAST Frame	1	
FAST Slides, 16-pad	10	
Reusable Incubation Chambers, 16-well	10	
Chamber Covers, 16-well	40	
FAST Slide 16, 16 pads (6 x 6 mm each)	10	10 485 323
Reusable Non-adhesive 16-well Chambers	10	10 486 046
Chamber Cover, 16-well Chamber	40	10 485 336
Protein Arraying Buffer (2x)	4 x 10 ml	10 485 331
Protein Array Blocking Buffer (1x)	100 ml	10 485 356
Protein Array Wash Buffer (10x)	4 x 125 ml	10 485 330

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Further Information

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