

Loading the Crystal Former chips using the Mosquito

With an inlet pitch of 4.5 mm the Crystal Former is designed to be compatible with most automated liquid handlers. TTP labtech has created a script for loading the Crystal Former using the Mosquito.

In order to load the Crystal Former chips using the Mosquito robot the following items are required:

- Crystal Former devices (Product No.: CF-10, CF-50) and sealing tape (Product No.: RT-1)
- TECAN Crystal Former holder (Product No.: SH-1)
- Mosquito Crystal Former plate definition file:
Microlytic (crystal former chip-TECAN holder).plate
Please contact Microlytic for script

1. Placement of Mosquito Crystal Former plate definition file.

To access the Crystal Former loading script from the Mosquito system, copy the file:

Microlytic (crystal former chip-TECAN holder).plate

To the directory:

C:/Program files/mosquito/plates

The Mosquito operating system will recognize the new plate format and you will be able to set up your Crystal Former protocol in the Mosquito software.

2. Positioning the Crystal Former chips within the holder.

The Crystal Former holder accommodates up to 4 chips allowing users to load 4 chips in a single run using the Mosquito robot. Prior to loading, the chips must be fitted against the upper left corner as shown by the red arrow on the photo below.

3. Set up protocol for dispensing solutions to Crystal Former.

Set up protocol defining liquid transfers from precipitant mother plate to Crystal Former chips according to standard procedure described in section 3 in Mosquito Standard Operator Manual & Training document.

4. Load the Crystal Former chips.

Add protein to the 8 protein wells on the Mosquito robot and position 96 well plate containing precipitant solutions in the source plate position and the Crystal Former slide holder in the destination plate position. Start the protocol from the Mosquito software.

5. Seal the Crystal Former chips.

After the chips have been fully loaded the Crystal Former chips must be sealed using the provided sealing tape. Incubate as required.

