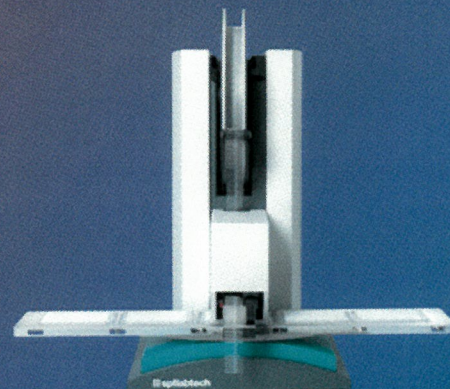


# mosquito<sup>®</sup> crystal

mosquito crystal helps scientists to automate and streamline liquid handling workflows in protein crystallography drop setting and beyond while enhancing research quality and productivity.

[Download the product brochure](#)



[Product benefits](#)

[Technical specification](#)

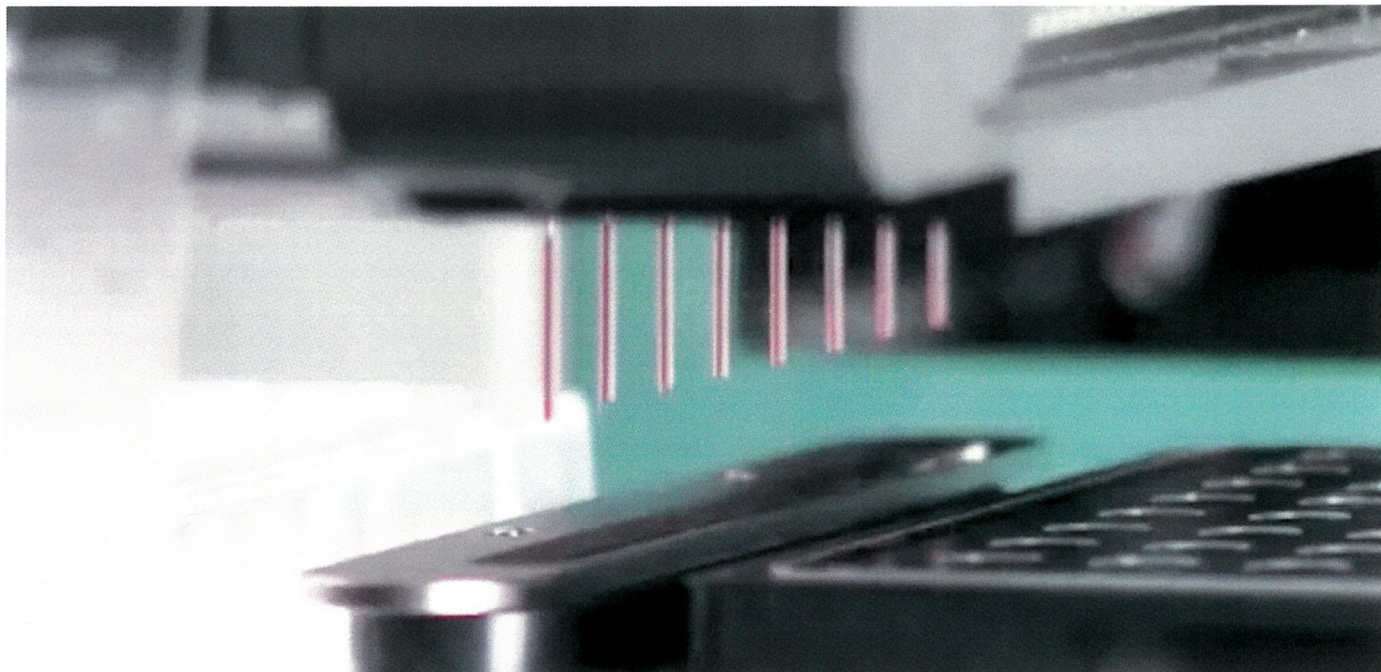
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## Fast, accurate, and precise pipetting for protein crystallography



The original mosquito crystal combines speed, accuracy, and high precision pipetting of nanolitre volumes with zero cross-contamination from a disposable tip. Volumes as low as 10 nL on multi-aspirate allow researchers to make the most of precious protein samples while benefiting from the adaptability to easily change methods to accommodate individual projects.





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Base



## Enabling experimental flexibility

By automating commonly used protein crystallization screening techniques including hanging drop, sitting drop and microbatch as well as seeding or additive screening plate preparation the instrument enables experimental flexibility. The instrument also offers researchers the flexibility to setup all traditional (non-LCP) protein crystallization experiments as well as enabling some other screening methods such as serial dilution work.



## Walk up and use technology

Even novice users master use of the mosquito crystal quickly, minimizing set up time and increasing productivity. The intuitive touch screen application-driven software and quick and easy experimental guides for rapid setup streamline the overall user experience.



## Designed for seamless workflow integration

mosquito crystal integrates seamlessly with a wide variety of laboratory instrumentation, including robotic plate handlers, stackers and bulk liquid handlers to achieve walk-away operation in many application areas.



## Access volumes as low as 10 nL on multi-aspirate

mosquito crystal enables researchers to use smaller volumes of protein sample and reduce screen consumption to realize substantial cost savings.



## True positive displacement pipetting delivers exceptional accuracy

The instrument harnesses innovative positive displacement pipetting by using disposable micropipettes with individual pistons to deliver exceptional accuracy and precision, irrespective of liquid class.



## Track record of reliability

Robust day-to-day performance with no blocking or clogging maximizes uptime, and safeguards research outcomes.

# We're revolutionising liquid handling

Our liquid handling portfolio provides you with accurate and repeatable nanolitre to microlitre pipetting, every time, irrespective of liquid viscosity or environmental conditions.

## Our Technology

### Positive Displacement

### Volumetric performance

### Our Software

### Integration

## High performance technology

Our liquid handling instruments harness innovative technology to streamline workflows and accelerate research.

Robust, reliable, and easy to use, our products overcome tough technical challenges and enable researchers to focus on the best science.

# mosquito crystal Citations

96 / 100  
Bioz Stars

549 Citations

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bioRxiv | 2023 Jun 16 | [Read Article](#)

**New** Antibodies against Elapidae and Viperidae snake venoms: in vivo neutralization and mechanistic insights

Kumar Amit, Madni Zaid Kamal ..., Salunke Dinakar M.

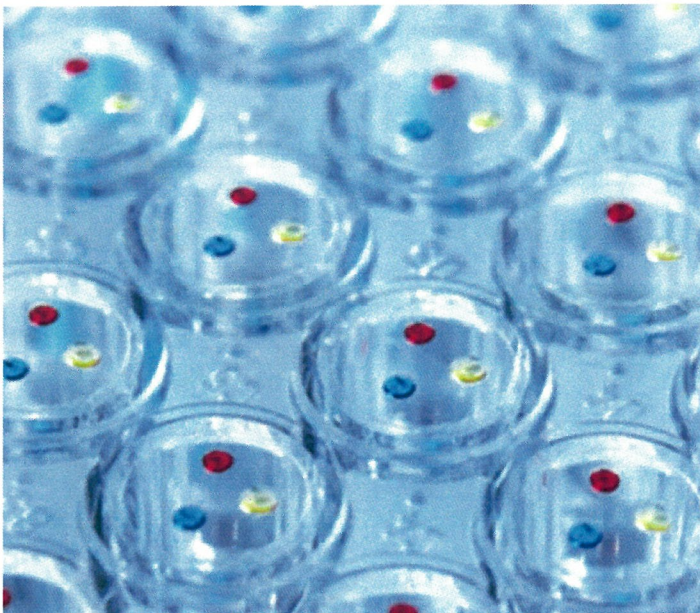
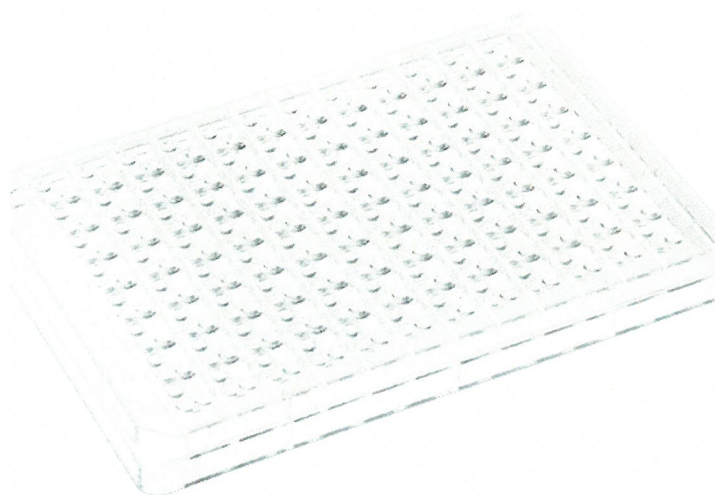
**"PrePrint:** .. screens were used to screen crystallization conditions. Hampton screens were used to screen crystallization conditions.. The crystallization droplets of 600 µl size were mixed in 1:1, 1:2, and 2:1 ratio of protein and buffer using **Mosquito crystallization robot (TTP-labtech)**.. The plates were kept at 20°C in Rumed incubator. The plates were kept at 20°C .." ([More...](#))

PLOS ONE | 2023 Jun 13 | PubMed ID: 37310965 | [Read Article](#)

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[See more details on Bioz](#)





# Technical Specification

## Pipetting range

25 nL - 1.2  $\mu$ L

## Throughput

2 minutes/ 96-well plate

## Primary SBS plate formats

48, 96 and 384

## Accessories

Active humidity chamber and spool cover

## Weight

27 kg (59 lbs)

## Dimensions (W x D x H)

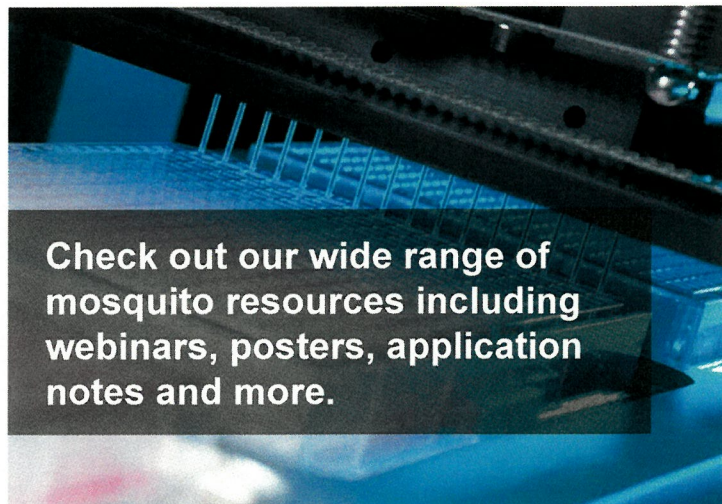
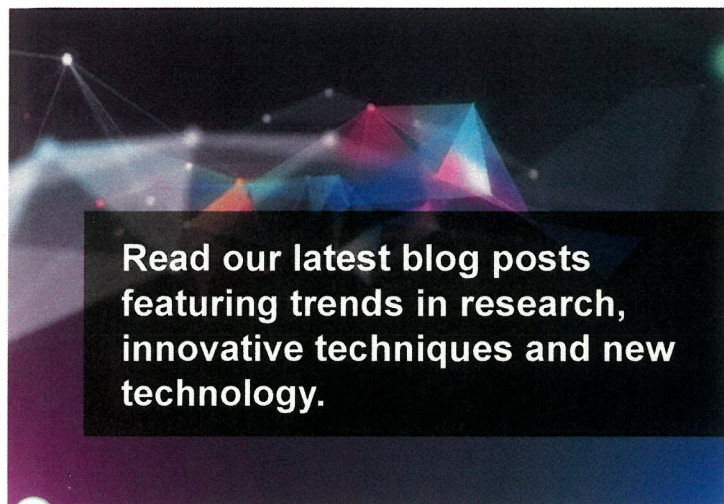
390 mm (790 mm 5 plate deck) x 470 mm x 690 mm  
15.5 in (31 in 5 plate deck) x 18.5 in x 27 in

## Technical variants

2 or 5 plate position deck

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