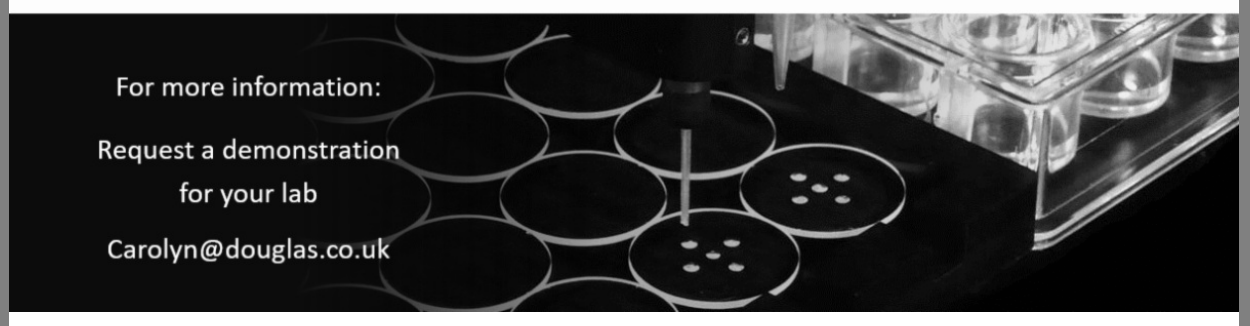
Douglas Instruments

Success in protein crystallization



Dear Crystallographer

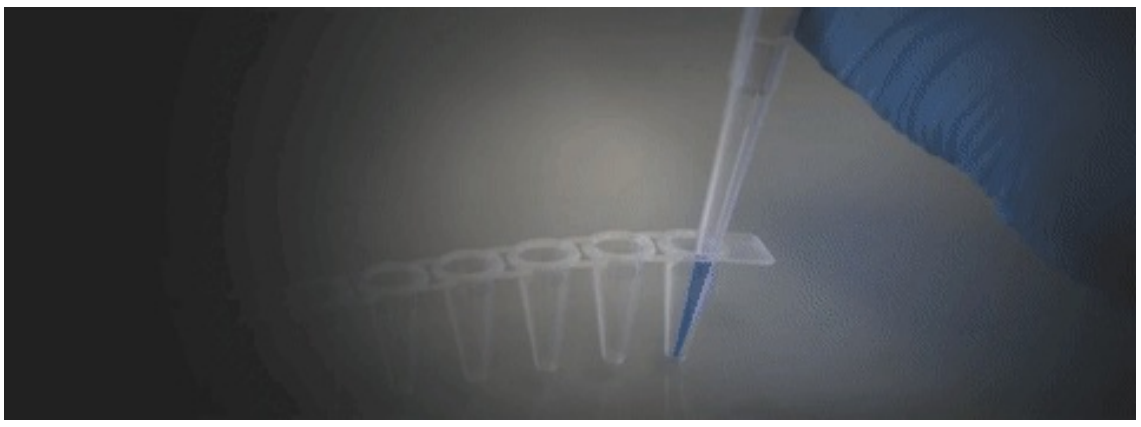
Get the most out of your protein with an Oryx protein crystallization system:

Low sample usage

- 10.0 µL of protein is required for a 96 well experiment (100 + 100 nL)
- Almost no protein or seed stock is wasted as all sample is loaded from one tube
- 1.5 uL of seed stock is required for a 96 well experiment

Screening and Optimization

- Sitting Drop, Hanging Drop and Microbatch-Under-Oil with automatic oil dispensing
- Use 15, 24, 48, 96 or 384 well plates
- Fill reservoirs for optimization with up to 6 ingredients . Typically total reservoir well volumes from 25 - 500 µl are dispensed (Oryx8 only).



Request more information

Conferences:

Douglas Instruments is attending the following meetings:

BCA Spring Meeting, Sheffield
3 April - 6 April 2023

HTCC 5, Dubrovnik
16 April - 21 April 2023

ISBC, Granada
21 May - 26 May 2023

ACA, Baltimore
7 July - 12 July 2023

IUCr 2023, Melbourne
22 August - 29 August 2023

Recently published research using Oryx protein crystallization robots:

The ROK kinase N-acetylglucosamine kinase uses a sequential random enzyme mechanism with successive conformational changes upon each substrate binding

Roy, S., Vega, M.V., Ames, J.R., Britten, N., Kent, A., Evans, K., Isupov, M.N. and Harmer, N.J., 2023.

Journal of Biological Chemistry, p.103033.

The structure of a Bacteroides thetaiotamicron carbohydrate-binding module provides new insight into the recognition of complex pectic polysaccharides by the human microbiome.

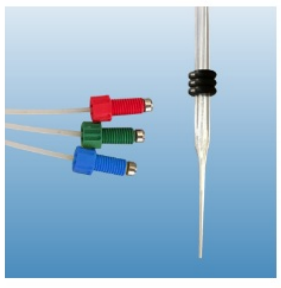
Trovão, F., Correia, V.G., Lourenço, F.M., Ribeiro, D.O., Carvalho, A.L., Palma, A.S. and Pinheiro, B.A., 2023.

Journal of Structural Biology: X, p.100084.

Products available from Douglas Instruments

Oryx Robots

Crystallization Plates



Oryx Microtips