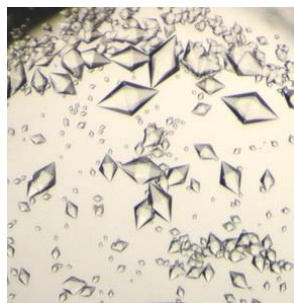




Return of the screen with the GOLDEN TOUCH

Modern
Intelligent
Dynamic
Alternative
Screen
...plus

Now even better!



Grown with MIDASplus™ precipitant: poly(acrylic acid) sodium salt. With thanks to Dr Andrew Lovering, University of Birmingham.



Grown with MIDASplus™ precipitant: SOKALAN® CP 7. With thanks to Dr Heidi Burke, Tufts University.



Grown with MIDASplus™ precipitant: pentaerythritol propoxylate (5/4 PO/OH). With thanks to Dr Andrew Hansen, Zurich University.

The perfect screen for difficult to crystallize targets, MIDAS™ was a revolutionary screen that broke away from traditional sparse matrix screening using PEG or salt as a precipitant. MIDASplus™ is an evolution of that original product: still containing many of the original components but with 21 conditions altered to accommodate a new range of alternate precipitants.

MIDASplus™ contains polypropylene glycol bis-aminopropylether (PPGBAs) to increase polymer diversity. The screen still includes Jeffamine® polyetheramines, pentaerythritol propoxylate and pentarethritol ethoxylate, polyvinyl pyrrolidone, polypropylene glycol, polyvinyl alcohol and polyacrylate polymers from the original MIDAS™. MIDASplus™ is the only screen which utilises many of these compounds, which are only sporadically utilized in crystallization trials.

- New, improved version of the original revolutionary screen
- Based on alternative precipitants
- Now with PPGBAs to increase polymer diversity
- Ideal for macromolecular complexes due to the narrow range of pH and salt, centred on physiological values
- Each condition contains at least one alternative polymeric precipitant
- Designed to enhance PEG- and salt-based screening

We have tried and are particularly pleased with the MIDAS™ screen, which led to crystals for two proteins that had resisted crystallisation prior to using MIDAS™. One of the two just got published in PNAS (Batt et al., 2012), the other one led to a structure that is awaiting publication. Dr. Klaus Futterer, Birmingham, UK

Europe & the rest of the world

Unit 6, Goodwin Business Park
Willie Snaith Road,
Newmarket,
Suffolk, CB8 7SQ, UK
Phone +44 (0)1638 561051

enquiries@moleculardimensions.com

Sales: orders@moleculardimensions.com

USA, Canada, Central & South America

849 Sunshine Lane,
Altamonte Springs,
FL 32714,
USA
Phone +1 877 479 4339 / +1 407 886 6901

enquiries@moleculardimensions.com

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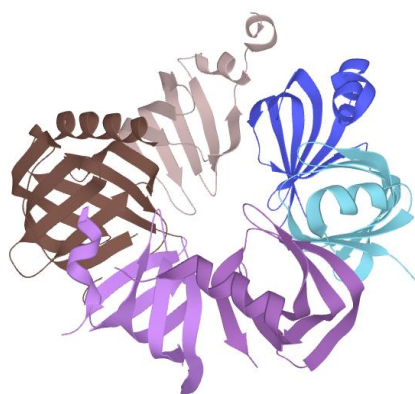


More Information

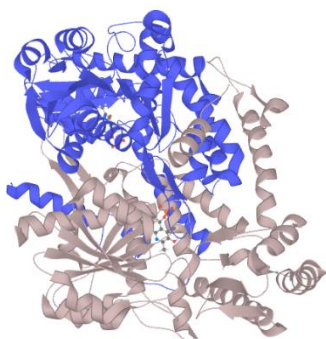
MIDASplus™ was devised and tested in the Laboratory of Dr Clemens Grimm and Prof Dr Utz Fischer at Würzburg University in Germany. It is manufactured and distributed by Molecular Dimensions under an exclusive licence.

Dr Grimm and Prof Dr Utz Fischer describe the development of the screen in:

Grimm, C, Chari, A, Reuter, K and Fischer, U (2010). *A crystallization screen based on alternative polymeric precipitants*. *Acta Cryst D* **66**: 685-697

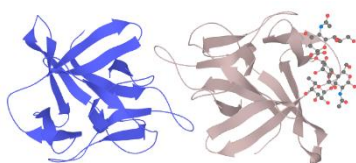


6S snRNP assembly intermediate (PDBID: 4F7U) as described in Grimm, C *et al*, 2013.



Coprinopsis cinerea CCL2 lectin complexed with sialyl lewis X (PDBID 4USO) as described in Bleuler-Martinez *et al*, 2017.

Burkholderia pseudomallei K96243 sphingosine-1-phosphate lyase (PDBID 5K1R).



MIDAS™ Successes

Publications describing structures solved from crystals grown in MIDASplus™ conditions

Grimm, C *et al* (2013). *Mol. Cell* **49**: 692-703.

Kling, A *et al* (2015). *Science* **348**: 1106-1112.

Masuyer, G *et al* (2015). *Sci Rep* **5**: 13397.

Vetting, MW *et al* (2015). *Biochemistry* **54**: 909-931.

Joshi, A *et al* (2015). *J Mol Biol* **427**: 2852-86.

Fyfe, CD *et al* (2015). *Acta Cryst D* **71**: 1478-86.

Bradshaw, WJ *et al* (2015). *Acta Cryst F* **71**: 295-303.

Tauchert, MJ *et al* (2016). *Acta Cryst F* **72**: 112-120.

Bleuler-Martinez, S *et al* (2017). *Glycobiology* **In press**.

Leupold, S *et al* (2017). *J Struct Biol* **In press**.

Pomowski, A *et al* (2017). *J Biol Chem* **In press**.

PDB identifiers for structures of crystals grown from conditions included in MIDASplus™

4F7U, 4ISD, 4KG1, 4MGG, 4MX6, 4RTD, 4UHP, 4USO, 4USP, 4ZJD, 4ZU7, 5AH2, 5ARM, 5BQN, 5DOU, 4D59, 5D4W, 5DTP, 5GZN, 5HJF, 5HJH, 5I4J, 5K1R, 5KE1, 5MUN, 5T63, 5T69

Ordering Information

	Pack Size	Description
MD1-106	96 x 10 mL	MIDASplus
MD1-107	96 x 1 mL	MIDASplus HT-96
MD1-107-FX	96 x 100 µL	MIDASplus FX pre-filled plate

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