

MIDAS™

the **GOLD** standard in **ALTERNATIVE PRECIPITANT SCREENING**....

MIDAS: a **M**odern **I**ntelligent **D**ynamic **A**lternative **S**creen:

- A revolutionary screen based on alternative polymeric precipitants.
- Ideal for both protein, protein/protein complexes, protein-nucleic acid complexes and sensitive macromolecular complexes.
- Narrow range of pH and salt concentrations centered on physiological values.
- Every condition contains at least one alternative polymeric precipitant.
- Designed to enhance PEG- and salt-based screening.
- Compatible with liquid-handling robots.

MIDAS is a **revolutionary crystallization screen** that has moved away from the reliance on polyethylene glycols (PEGs) as the main precipitant (only 3 conditions in MIDAS contain a PEG).

For decades PEGs or their monomethyl ethers (PEG MMEs), have dominated crystallization screens. Out of 8289 entries scanned in the PDB, almost half of the crystallization conditions contained a PEG component and most commercial screens available today contain PEGs. However, the success rate of PEGs is likely to be biased by their widespread dominance in crystallization screens.

MIDAS introduces polymers such as the Jeffamine polyetheramines, pentaerythritol propoxylate and pentareythrrol, polyvinyl pyrrolidone, polypropylene glycol, polyvinyl alcohol and polyacrylate which have so far only been used sporadically in crystallization.

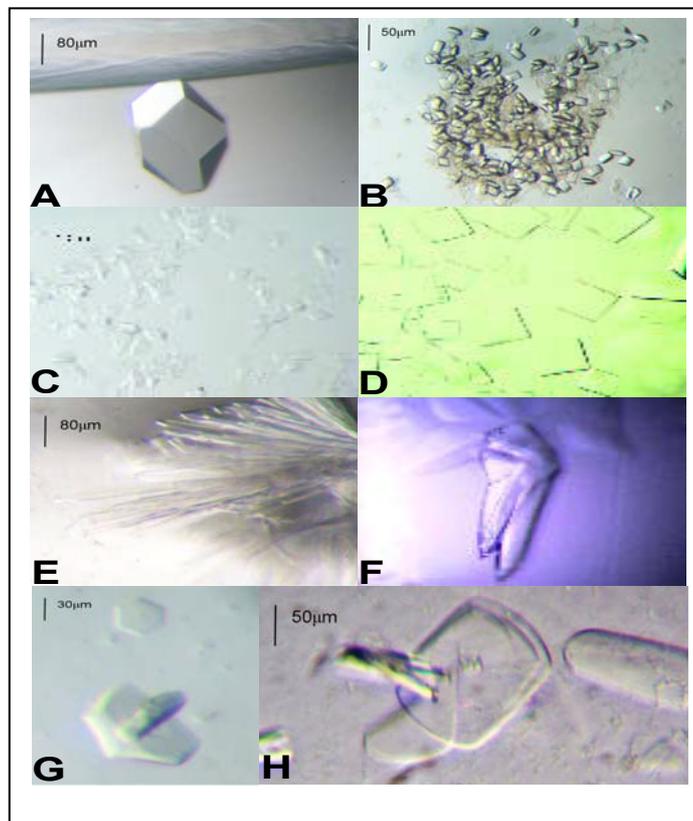


Figure 1. Examples of protein crystals grown using MIDAS.

(A) Lysozyme crystals obtained in 35% Sokalan HP 56, (B) Xylanase crystals obtained in 20% Jeffamine M2070, (C) Crystals of the cytokine receptor-ligand complex obtained in 45% pentaerythritol propoxylate (5/4 PO/OH). (D) Crystals of streptavidin core obtained in 5% polyacrylate 2100, sodium salt, (E) Histone tail recognizing MBT repeats in 35% polyacrylate 2100, sodium salt), (F) Lysozyme crystals in 30% Sokalan CP 42, (G) spliceosomal assembly complex (SAC) 7 obtained in 6% polyvinyl pyrrolidone K15, (H) Crystals of spliceosomal assembly complex (SAC) 9 obtained in 25% Sokalan CP 42.

Devised and tested in the Laboratory of Dr. Clemens Grimm *et al* of Würzburg University in Germany, published in:

Grimm *et al*, *Acta Cryst.* (2010). **D66**, 685-697.

MIDAS™ is produced commercially under an exclusive agreement with Molecular Dimensions Ltd.

Dare to be different.....order MIDAS now:

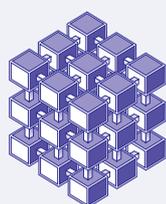
MD1-59 = 96 x 10 mL tube screen.

MD1-60 = 96 x 1.1 mL HT block



Molecular Dimensions also makes the following superb range of Crystallization Screens:

	10 mL kit	HT-96 kit	Cacodylate-free	Green Screens
Structure Screen 1	✓	✓	✓	✓
Structure Screen 2	✓	✓	NA	✓
The Structure Screen Combination	✓	✓	✓	✓
Mini Screen	✓	x	✓	✓
3D Structure Screen	✓	✓	✓	✓
Heavy & Light Twin Pack	✓	✓	✓	✓
Clear Strategy Screen I	✓	✓	✓	✓
Clear Strategy Screen II	✓	✓	✓	✓
The Clear Strategy Screen Combination	✓	✓	✓	✓
Clear Strategy Screen Combination pH Premixed	✓	✓	✓	✓
The Solubility Tool Kit (Box 1 + 2) 98 reagents	✓	x	x	✓
The Solubility Tool Kit - Solubility Screen Box 1	✓	x	x	✓
The Solubility Tool Kit - Precipitant Screen Box 2	✓	x	x	✓
Stura Footprint screens	✓	✓	✓	✓
The Stura Footprint Combination	✓	✓	✓	✓
PACT premier	✓	✓	✓	✓
JCSG plus	✓	✓	✓	✓
Morpheus	✓	✓	NA	✓
Morpheus Additive OptiMax Kit	✓	x	NA	✓
PGA Screen with separate buffers	✓	✓	x	✓
PGA Screen premixed with buffers	✓	✓	✓	✓
MemStart Kit	✓	✓	x	✓
MemSys	✓	✓	x	✓
The Membrane Protein Combination	✓	✓	x	✓
Memgold	✓	✓	✓	✓
MemPlus	✓	✓	✓	✓
The Lipidic-Sponge Phase Screen			48 x 40 µL vials	
ProPlex	✓	✓	✓	✓
MacroSol	✓	✓	✓	✓
Midas	✓	✓	NA	
NR-LBD Screen	✓	✓	x	✓
NR-LBD Extension Screen	✓	✓	x	✓
The Nuclear Receptor Combination	✓	✓	x	✓
Stura CryoScreen Kit				
Additive Screen			24 x 1 mL	
Gelled Surface Kit			5 plates	



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