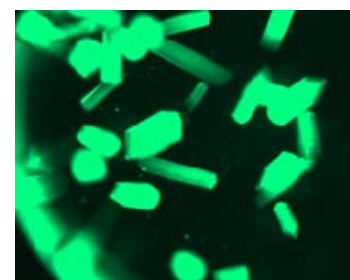


Molecular
Dimensions

NEW PRODUCT!

Green Screens

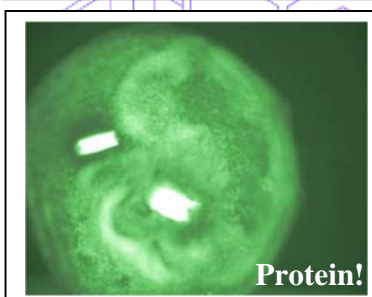
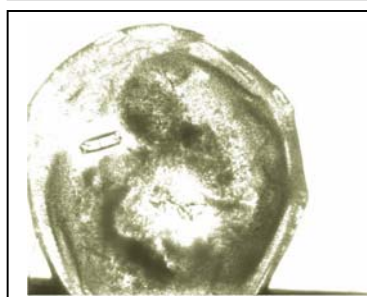
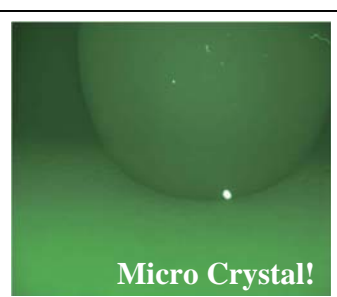
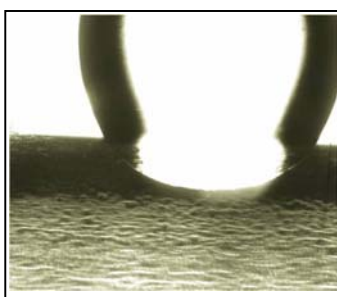
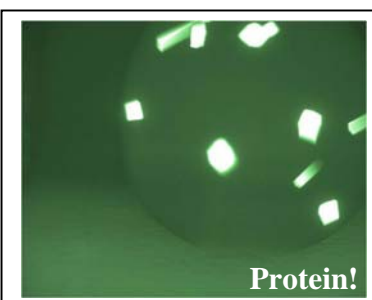
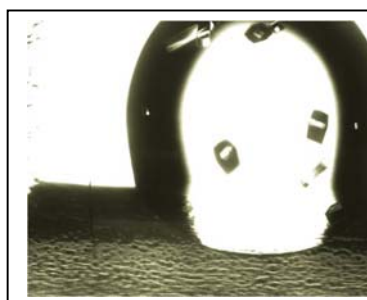


Fluorescent dye based screens to boost crystal detection!

In recent years UV fluorescence imaging has become an established method for protein/salt crystal discrimination. Whilst the majority of proteins contain at least one tryptophan residue there remain a number that fluoresce weakly or not at all, yielding a false negative. Green Screens contain a non-covalent fluorescent dye which conveys fluorescence on most proteins. This not only increases the signal to noise ratio (important for very small crystals), but also allows the identification of protein crystals lacking intrinsic fluorescence that would otherwise remain ambiguous. Green screens are available in three of our most successful screens, *PACT premier*, *JCSG plus* and *MemGold™*.

Features:

- **Non-covalent** – binds in channels and not observed to affect crystallization or diffraction quality in any of the proteins tested*.
- **Increased crystal contrast** – observe protein crystals <30µm and also those lacking significant intrinsic fluorescence.
- **Improved signal to noise** – on average quantum yield ratio of fluorescence is increased from 0.2 to 0.7.
- **Easy to use** – available in three proven to be successful screens - *PACT premier*, *JCSG plus* and *MemGold™*.
- **Standard format** – for all automated systems – 1mL HT-96 block (10ml kits available on request).



Images kindly provided by Matthew Groves, EMBL Outstation- Hamburg.

Order now:

PACT <i>premier</i> – Green Screen	1ml HT-96 block	MD1-52
JCSG <i>plus</i> – Green Screen	1ml HT-96 block	MD1-53
MemGold™ – Green Screen	1ml HT-96 block	MD1-54

*References: Groves MR, Müller IB, Kreplin X, Müller-Dieckmann J. "A method for the general identification of protein crystals in crystallization experiments using a noncovalent fluorescent dye." *Acta Crystallogr D Biol Crystallogr.* (2007) Apr;63(Pt 4):526-35.



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