



Microlytic SuperCOMBI Screen



The SuperCOMBI Crystallization Screen permits efficient, non-redundant crystallization screening specifically designed for use with the Microlytic Crystal Former. It is an amalgamation of conditions from our MCSG Suite and our PurePEGs screen for sparse matrix screening. These conditions have been optimized for the free-interface diffusion crystallization method, which maximizes the potential of the Crystal Former.

- ★ Designed for use with the Microlytic Crystal Former
- ★ Optimized for free-interface diffusion / capillary crystallization
- ★ Selection of conditions from MCSG Suite (1-48) and PurePEGs Screen (49-96)
- ★ pH measured and recorded for final crystallization solution
- ★ Individual condition refills and optimization reagents available

The 96 conditions of the Microlytic SuperCOMBI Screen are available in a 1.0 ml deep well block format. A 96-well Greiner plate is provided for dispensing the screen into the Microlytic Crystal Former with drop setting robots.

The optimal screen for free-interface diffusion crystallization experiments that combines the proven productivity of the Microlytic MCSG Suite with the advantages of combinatorial PEG screening from the Microlytic PurePEGs screen.

Free-interface diffusion crystallization offers tremendous advantages in protein crystallization, including the ability to assess protein phase behavior across the gradient of a given condition. In contrast, to vapor diffusion exploration of crystallization space becomes more systematic and complete in this format. The Microlytic Crystal Former is an innovative device that harnesses the power of diffusive mixing in a sample, automatable format which, when coupled with the optimized crystallization reagents of the SuperCOMBI screen offers excellent coverage of crystallization space in an efficient and cost-effective manner.

The SuperCOMBI screen has been designed to offer excellent crystallization screening without the redundancy present in sparse matrix screens intended for vapor diffusion methods. By combining conditions from the Microlytic MCSG Suite, and the Microlytic PurePEGs screen, this screen represents the most productive crystallization conditions that maximize the potential of the Crystal Former.

Reference:

- V. Stojanoff et al. Acta Crystallogr F. 67, 971-975 (2011)

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