



Microlytic TOP96 Screen



Ever wonder what are the most commonly occurring conditions reported in the Protein Data Bank? TOP96 provides just that - a set of 96 conditions that occur with highest, non-redundant frequency amongst all PDB deposits. This screen is based on the Shotgun Screen from C3 at CSIRO.

- ★ The latest screen from Janet Newman & Colleagues
- ★ 96 of the most productive conditions in the Protein Data Bank
- ★ Identical to at least 17% of all PDB entries
- ★ Highly similar to at least 40% of all PDB entries
- ★ Non-redundant sampling of successful conditions
- ★ Individual condition refills and optimization reagents available

The 96 conditions of the Microlytic TOP96 Screen are available in either 1.7 ml deep well block, or 10 ml tube formats.

The result? The most productive 96 crystallization conditions that can be extracted from the entire PDB archive and the best place to start your crystallization screening.

Commercial crystallization screens offer more than 15000 crystallization conditions for ready screening of new crystallization targets. However, not all conditions are well-represented in the Protein Data Bank and, certainly, some have been far more successful than others. TOP96 was generated by creating two databases - one for non-redundant commercially available crystallization conditions and one for unique pairs of protein sequences with crystallization conditions reported in REMARK280 of each PDB entry. Both strict and "fuzzy" overlaps between the two sets were calculated and the most frequently reported crystallization conditions identified.

Reference:

Fazio VJ, Peat TS & Newman J (2014). A drunken search in Crystallization Space. Acta Cryst. F70:1303

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