CrystalBreeder

DO MORE WITH LESS

Enhance your early stage solid state screening with the CrystalBreeder bench-top system

The ***CrystalBreeder*** is the next generation multi-reactor crystallization platform for medium-throughput solid-state research, operating at a working volume of 0.1 mL. Carry out rapid complete crystallization screens with as little as 1 mg of sample. The ***CrystalBreeder*** gives you real time turbidity information for 32 parallel temperature controlled experiments. When early solubility information is essential, stop guessing and allow the ***CrystalBreeder*** to put you in the lead.

Multiple crystallization modes

Cooling, evaporation, slurry, thermocycling, vapor diffusion

Up to 32 parallel reactors

Carry out a complete crystallization or polymorph screen overnight

Minimal sample required

Less than 32 mg of sample for a complete screen

Stay at the forefront

In order to decrease the time to market, effective innovation is vital. Early stage solid-state screening is necessary to avoid costly surprises later on in development. Similarly there is a need to do salt screening earlier on in the development cycle, since changing the salt form at a later stage may cause costly delays of the whole development process. Crystallization Systems introduces the latest breakthrough in early stage solid-state crystallization research: the ***CrystalBreeder***. Following in the tradition of the Crystal16 and the Crystalline, the ***CrystalBreeder*** was developed by experts in crystallization as an integrated solution for solid-state screening, allowing you to focus on your pipeline.

See more with less

Investigate small amounts of sample under controlled conditions, with the ***CrystalBreeder***: simply and reliably. Do a complete salt screen with as little as 1 mg of compound at working volumes of 0.06 - 0.1 mL. The reaction conditions are more reproducible and realistic than in well-plate experiments, while through the vial analytics measure the turbidity in each reactor without any physical contact with the sample. The real-time display of the results provides an immediate and reliable signal when a sample crystallizes.

Do more with less effort

The reaction vials are fully compatible with liquid handling and solid dosing robots, ensuring quick, easy and reproducible sample preparation. Using the handy ***CrystalBreeder*** caps, the reaction vials can be loaded into the ***CrystalBreeder*** with ease. With an intuitive software interface, the system controls and analyzes 32 reactors, with 8 independent temperature zones. Screening experiments are set up in less than a minute, using predefined protocols.

Evaporation set-up

Multiple crystallization methods set-up

Vapor Diffusion set-up

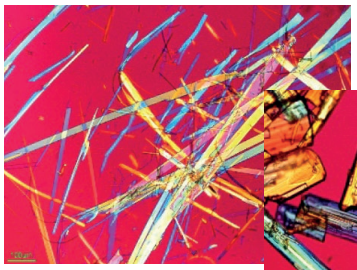
More versatility with less hassle

The ***CrystalBreeder*** was designed with versatility in mind. Use the overhead stirring with unique hook design to mix thick slurries and viscous fluids. The ***CrystalBreeder*** Evaporation Tops enable you to carry out controlled evaporation crystallization studies. Vapor diffusion crystallization is now available by making use of the unique vapor diffusion set-up.

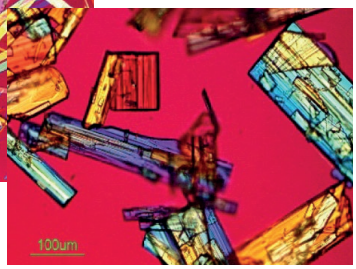
Get more for less

Advance your crystallization screening with the ***CrystalBreeder***, the multiple reactor system that allows you to screen small amounts of sample under controlled conditions.

Solubility Screening
Easily define temperature profiles, sampling rates and stir speeds
Determine cloud and clear points
Define zones of interest for scaling up to milliliter scale
Polymorph Screening
Multiple crystallization modes with different solvents
Slow evaporation (with or without stirring)
Slow cooling with overhead stirring
Thermo-cycling with non-linear temperature profiles
Vapor diffusion crystallization



Form 1



Form 2

Follow us on

Technobis Crystallization Systems workflow

CrystalBreeder

Crystal16

Crystalline

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