

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 salt, co-crystal 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.

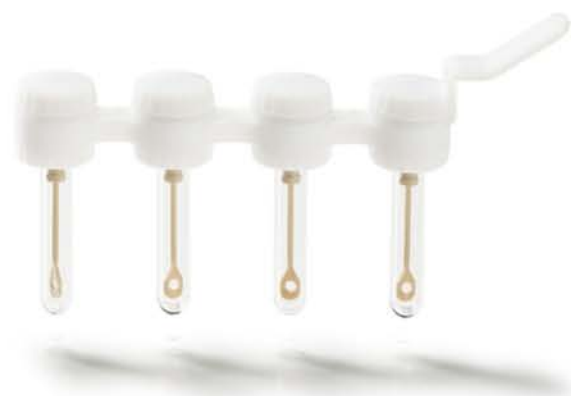
See more with less

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 0.05 - 0.2 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 CrystalBreeder has been designed with a focus on simplicity and ease of use. This bench-top system integrates seamlessly into any workflow, with its stand-alone software and standardized reaction vials. The CrystalBreeder is also fully compatible with downstream analytics enabling characterization of the crystallization products.

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.



More versatility with less hassle

The CrystalBreeder was designed with versatility in mind. Use the overhead stirring with unique impeller design to mix thick slurries and viscous fluids. Alternatively, set up experiments with variable stir speeds for both overhead and magnetic bean mixing. The CrystalBreeder Evaporation Tops enable you to carry out controlled evaporation crystallization studies.

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

Salt/Co-crystallization Screening

Set up a full matrix for salt/co-crystallization screening in a single experiment

Screen 8 counter ions/co-formers in 4 solvents under reproducible conditions

Rapidly identify hits and export data on zones of interest

Polymorph Screening

Multiple crystallization modes with different solvents

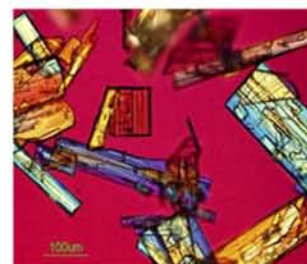
Slow evaporation (with or without stirring)

Slow cooling with overhead stirring

Thermo-cycling with non-linear temperature profiles



Form 1



Form 2

Also part of Technobis Crystallization Systems workflow



Crystal16



Crystalline

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