



THE FLEET IS COMPLETE

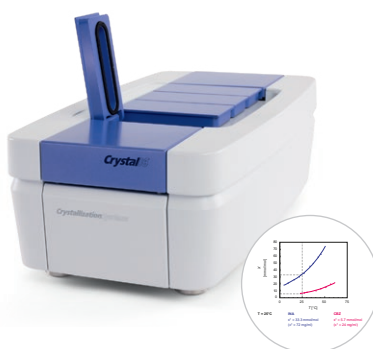
We are proud to present the Technobis Crystallization Systems workflow. Users are now able to perform well controlled crystallization studies from hit identification and lead optimization up through process scale up. Combine the **CrystalBreeder**, **Crystal16** and **Crystalline** in a flexible configuration to optimize solid-state success!



CrystalBreeder

Discover

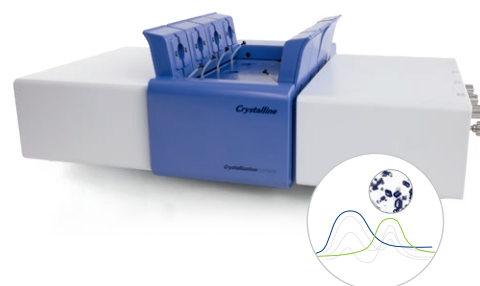
- Single crystal growth
- Crystallization & polymorph screening
- Solubility screening



Crystal16

Screen

- Solubility & MSZW determination
- Solvents selection
- Solubility mapping
- Phase diagrams
- Polymorphs, salt and co-crystals



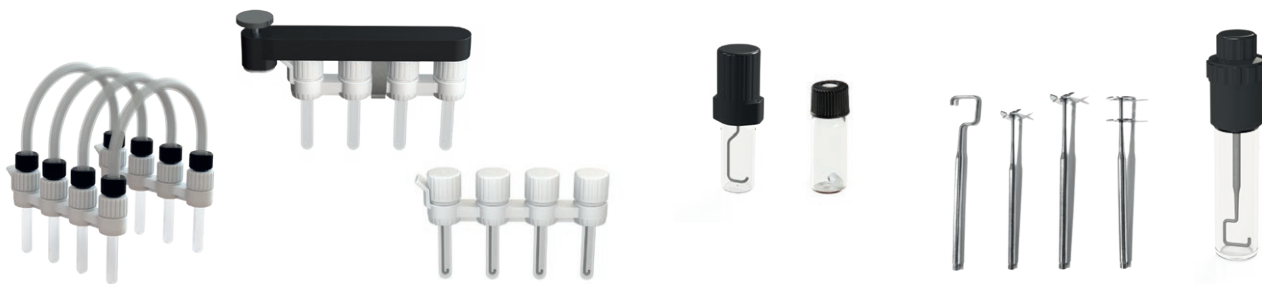
Crystalline

Optimize

- Crystallization process optimization
- Form & habit control
- Particle size determination
- Formulation process optimization
- Stability of liquid formulations

PRODUCT SHEET
DISCOVER, SCREEN AND OPTIMIZE

Technobis
CRYSTALLIZATION SYSTEMS



Specifications	CrystalBreeder	Crystal16	Crystalline
Feedback control	Yes	Yes	No
Reactors	32	16	8
Reactor type	Commercially available, glass	Commercially available, glass	8 ml vials
Optimal work volume (mL)	0.06 to 0.1	0.5 to 1.0	2.5-5 ml
Temperatures zones	8	4	8
Temperature range (°C)	-15 to 150 ¹	-15 to 150 ¹	-25 to 145 ²
Temperature accuracy (°C)	0.1	0.1	0.1
Heating rate (°C/min)	0 - 20	0 - 20	0 - 20
Cooling rate (°C/min)	0 - 20	0 - 20	0 - 20
Stirring	Overhead or stirrer bar	Overhead or stirrer bar	Overhead or stirrer bar
Stirring speed (rpm)	0 - 1250	0 - 1250	0 - 1250
Evaporation option	Yes, with evaporation flow per block of 4 reactors	No	Yes, with evaporation flow per reactors
Vapor diffusion option	Yes	No	No
Turbidity (%)	Every reactor	Every reactor	Every reactor
Chiller necessary	No	No	Yes
Camera's	-	-	4 or 8
Camera resolution (µm/pixel)	-	-	7.5, 3.75, 1.875
Particle size information	-	-	Yes
Raman	-	-	Yes, compatible with most Raman spectrometers (785nm)
Data export	CrystalClear, Word Report, XML	CrystalClear, Word Report, XML	CrystalClear, Word Report, XML
Foot print (D x W x H in cm)	(49 x 56 x 20)	(49 x 28 x 20)	(53 x 51 x 20)

¹ Minimum temperature reached in 1 block reactor is -15°C, and -10°C when all 8/4 block reactors are in use.

² Minimum temperature reached in 4 reactors is -25°C, and -20°C when all 8 reactors are in use.

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Technobis Crystallization Systems workflow



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