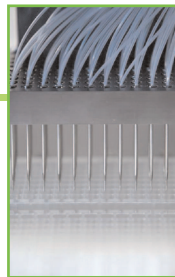
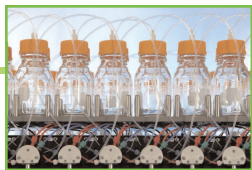




EMERALD BIOSYSTEMS MATRIX MAKER

RELIABLE PROTEIN CRYSTALLIZATION SCREEN PRODUCTION

The Matrix Maker™ is an industrial strength, automated liquid handling system for protein crystallization screen production. A unique combination of 30 precision syringe pumps each with 9-position valve heads, innovative plumbing and a high-resolution gantry that can accurately deliver chemical stock solutions under sterile conditions to any type of plastic ware. The patented design ensures excellent dispensing accuracy for highly viscous solutions. All of the stock solutions are dispensed by positive displacement using precision syringes, and the design eliminates aspiration problems and does not produce costly plastic tip waste. From start to finish the Matrix Maker can produce protein crystallization screens with 96 different cocktails in 35 minutes or less!



FEATURES

- Dispenses a 96-formulation matrix from up to 60 different liquids (any combination into any well)
- Fast processing time: < 35 min for 96 cocktails
- Use any liquid: aqueous, organic, viscous and low surface tension liquids of varied pH
- Dispense into any container format (tubes, bottles, SBS-blocks, crystallization plates)
- High accuracy (2% CV) dispensation, even with highly viscous solutions
- Software and database support for formulation design
- Enables systematic variation of components and testing of more formulation variations
- Built-in stock volume tracking



SMART MATRIX DESIGN AND CRYSTALLIZATION LIMS

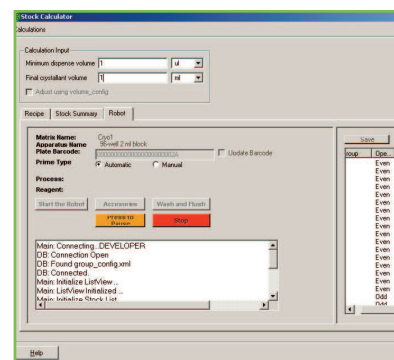
- Easy wizard-based or drag-and-drop creation of new screens
- Quick optimization of hits and recipe calculation for optimization of crystallization screens
- Starter database includes complete formulation definitions for all commercially available crystal growth matrices
- Data storage in SQL Server database
- Fully networkable, individual user accounts and logins and user group designations
- Crystal Miner™ crystallization LIMS for complete crystallization project management
- Annotate and store all information relevant to protein crystallization trials
- Seamless integration with the Crystal Monitor™ Workstation to capture images of crystallization experiments

SYSTEM SPECIFICATIONS

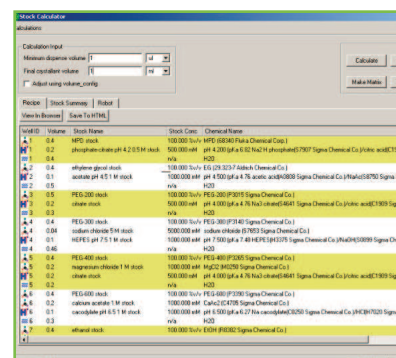
- Weight 475lb (215kg)
- Height 49" (125cm)
- Depth 31" (79cm)
- Length 44" (112cm)
- CE Certified
- 110/220 VAC, 60/50hz, 880VA max
- Emergency Stop Button
- Safety sash with safety Stop Feature
- Status lighting

COMPUTER

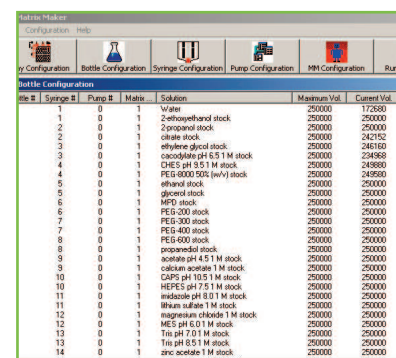
- Processor: Intel Core Duo w/2GB RAM
- Operating system: Windows XP Professional
- SQL Server 2005 Workgroup
- Screen: 20" ultra sharp digital



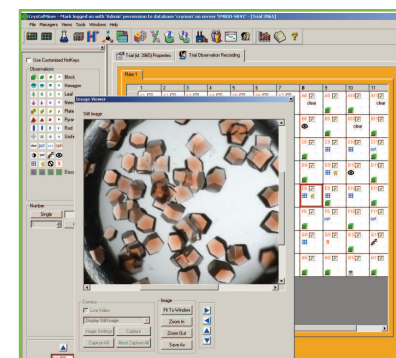
Operation through user-friendly GUI



Built-in recipe calculation starting from stock solutions



Tracking positions and remaining volumes of stock solutions



Capture results of your crystallization trials