

## mAbs Development Ecosystem in Biopharma

## **Research & Development** Science **Screening & Validation Cell Line Construction &** of Target Genes **Clone Screening** Phage Hybridoma B Cell Clone **Master Cell** Gene Pool **Transfection Display Optimization Technology** Isolation Screening Characterization Bank Vi-CELL BLU **Biomek i Series** Valita Titer Assay **Biomek i Series Automated Workstations Analyzer Automated** Cydem VT Vi-CELL BLU **Echo Acoustic Liquid Handlers** Workstations **Analyzer** System CytoFLEX SRT **Valita** Aggregation **Pure Assay CytoFLEX** Analyzer Platform **Patient Manufacturing Downstream Process Development Upstream Process Development Cell Culture** Clarification **Purification** Harvest QC **Formulation** Scale Up **Final Product** Remove large **Optima AUC Ultracentrifuge** Separate Media & Feed isolation from cells from impurities from **Optimization** clarified media supernatant cell media **Avanti JXN Series** Optima XPN **Avanti JXN Series** Vi-CELL BLU Ultracentrifuge Centrifuges Analyzer Centrifuges **Series Centrifuges** Vi-CELL MetaFLEX **Analyzer** Valita Titer Assay **Analytics Analytical Development** Physicochemical Biological Features/Activity **Properties** Vi-CELL BLU **Optima AUC** Learn more about newest trends in the discovery, development and manufacturing Ultracentrifuge **Analyzer** of mAbs. beckman.com/monoclonal-antibodies **CytoFLEX Analyzer Platform** Valita Titer Assay

Valita Aggregation
Pure Assay