

FUJIFILM

Diosynth
biotechnologies

Saturn™ mAb Platform



SATURN™
mAb platform

Partners for *Life*
Advancing tomorrow's medicines

Our Cell Culture Experience



Designed to reliably and flexibly meet your mAb development and production needs.

12

Cell Line Development Programs

45

mAb Programs

65+

mAb, mAb-like and Ig-fusion molecules

55

CHO Programs

29

Programs Completed
GMP Manufacturing



Our Saturn™ mAb Benefits



Access to Cell Culture Capacity

- High-throughput manufacturing approach provides built-in capacity access to support critical customer deadlines.



Platform with Built-in Options for Flexibility

- Platform has built-in cell line expression system with our Apollo™ Mammalian Expression System
- Can support programs with customer's established cell lines.



Reliable/De-risked Manufacturing

- Robust and easily optimized from Early Phase programs to Late Phase, ready for validation
- Facilities designed to support long-term commercial manufacturing.



Developers of cell culture-based therapies need reliable and proven partners with the development and manufacturing experience to support the delivery of therapies to patients.

FUJIFILM Diosynth Biotechnologies offers a full range of process and analytical development services, combined with flexible cGMP contract manufacturing assets, to support you through the full life cycle of your product, from cell line development to clinical supply and all the way to commercial production.

Our cell culture solutions include:

- Cell line development using our Apollo™ Mammalian Expression System
- Saturn™ mAb Platform to ensure a reliable and robust mAb supply
- Tailored cell culture solutions for complex molecules, Baculovirus process development, scale-up, manufacturing.

FUJIFILM Diosynth's Saturn™ mAb Platform provides regulatory compliant processes, facilities and systems with the potential for providing earlier access to mAb research and cGMP.

- Monoclonal Antibody Center of Excellence
 - New dedicated 10,000 sq. ft. cell culture Center of Excellence for Platform establishment, with the latest high-throughput technologies including fully-automated bioreactor and chromatography systems
 - Cutting edge analytical mAb panel supported by extensive characterization capabilities.
- Manufacturing Excellence
 - New state-of-the-art 120,000 sq ft cGMP mAb facility with 3 x 2,000L of cell culture upstream capacity
 - Best-in-class technologies in all upstream and downstream units of operation
 - De-risking supply chain through the availability of off-the-shelf raw materials and consumables
- The built-in flexibility to move to tailored solutions, for molecules that have complex development and/or manufacturing challenges.





Saturn™ mAb Transfer

Platform based on Customer Cell Lines

- Platform Fit Assessment (Proof of Concept)
- Manufacturing capacity access built-in



Saturn™ mAb Plus

Platform based on FUJIFILM Diosynth's Apollo™ Cell Line

- Full FUJIFILM Diosynth process/analytical platform implementations
- Manufacturing capacity access built-in

Incorporating:



- Our Mammalian Expression Platform CHO, DG44-based
- Developed for robust, high levels of recombinant protein expression with manufacturability for the entire life of your product as the end goal.

Cell Culture Tailored Solutions

Saturn™ mAb Advantage tailored programs to solve complex molecules that need expertise with increased process development, scale-up and/or manufacturing challenges.

FUJIFILM

Diosynth
biotechnologies

Belasis Avenue, Billingham
TS23 1LH, United Kingdom

Tel: +44 (0) 1642 363511

101 J. Morris Commons Lane,
Morrisville, North Carolina 27560, USA

Tel: +1 (919) 337 4477

100 Discovery Drive, Suite 200,
College Station, Texas 77845, USA

Tel: +1 (979) 431 3500

Email: contactfdb@fujifilm.com www.fujifilmdiosynth.com

Apollo™ is a trademark and the property of FUJIFILM Diosynth Biotechnologies UK Limited.
Saturn™ is a trademark and the property of FUJIFILM Diosynth Biotechnologies UK Limited.
©FUJIFILM Diosynth Biotechnologies UK Limited.

April 2017