

Curia's mammalian cell line development solutions enable rapid progression from DNA to research and manufacturing-ready cell lines. By integrating transient and stable CHO platforms, Curia supports efficient biologics development from discovery through commercialization.

Cell Line Development Platforms

Curia provides efficient methods to transition programs from DNA to research cell banks (RCB), ensuring clonality and high titer.

The TunaCHO[®] platform offers transient production, while the CHO-GSN[®] platform enables stable cell line expression, both derived from the same CHO-K1 parental cell line. This consistency ensures similar activity and post-translational modification profiles. The CHO-GSN[®] platform features with a glutamine synthetase knockout cell line and semi-targeted integration technology that delivers over 6-fold higher titers than random integration for RCB generation and future commercial manufacturing.



TunaCHO[®] Platform

7-14 day transient

10 mL - 20 L



CHO-GSN[®] Platform

High-performance stable

Can reach up to 7 g/L

Curia's Approach

Technologies

- Electroporation to ensure efficient delivery of desired genes of interest to the cellular fabric
- Single cell plating to isolate multiple high expressors
- Cellular imaging to monitor proliferation of a consistent monoclonal cell line

Features

- Stable transfections to CHO-GSN[®] cell line
- Proven stability >60 generations
- Single cell cloning and monitoring for production of stable research cell lines
- Documented progression of research to master cell bank implementation



Stable Vector
Construction



Stable Pool
Generation



Stable Clone
Generation

Proprietary Stable Expression Vector

- Custom Designed for proprietary CHO-GSN[®] cell line
- Enhanced promoters
- Sequence optimization and quality oversight

CHO-GSN[®] Platform

- CHO-K1 derived traceable cell line
- Stable Maxcyte electroporated
- Antibiotic-free Glutamine selection
- Fed-batch production for titer assessment

CHO-GSN[®] High titer Clone and Monoclonal Cell Line

- Cytex UP.SIGHT[™] single cell dispenser & imager
- Production and purification optimization
- >60 generation stability verified