

CELLUPRO



Advanced  
Cell Culture  
Solutions

 QUALITY

 CONSISTANCY

 RELIABILITY

## About CelluPro



CelluPro, founded in 2018, is a biotechnology company dedicated to delivering **high-performance serum-free cell culture media solutions** for the global biopharmaceutical industry.

Driven by scientific innovation and process expertise, we provide media solutions defined by quality, consistency, and reliable supply, supporting biopharmaceutical manufacturing **from process development to large-scale commercial production**.

Backed by a strong R&D platform and fully integrated in-house manufacturing capabilities, our product portfolio supports a wide range of cell culture processes and biopharmaceutical applications, spanning across **antibody therapeutics, vaccines, biosimilars, and cell & gene therapies**.

CelluPro is also **the first Chinese cell culture media supplier** to support the commercial production of mAbs and ADC products, with the capability for dual submission of U.S. FDA BLA and EMA.

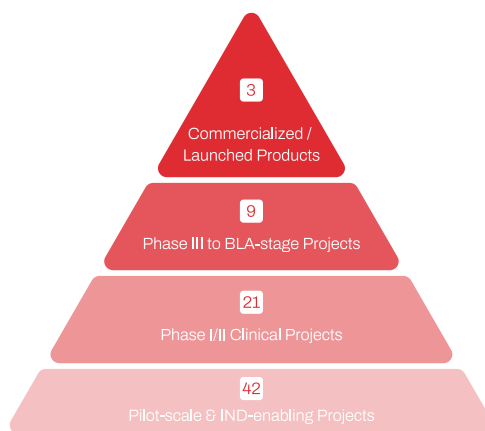


# Supporting Pipelines

CelluPro provides scalable manufacturing and reliable global supply solutions for biopharmaceutical companies across process development and commercial production. We serve customers in major markets, including China and the United States, and support **over 75 pipelines** at different development stages worldwide.

Supported by **fully integrated in-house manufacturing and a cGMP-compliant quality system**, we ensure consistent product quality, strong batch-to-batch reproducibility, and stable long-term supply.

## Supporting Pipelines by Development Stage





## GMP-compliant Manufacturing Facilities

### ■ cGMP Powder Media Manufacturing Platform

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CelluPro operates advanced cGMP-compliant powder media manufacturing facilities equipped with world-leading **pin mill technology**, ensuring high product stability, uniformity, and batch-to-batch consistency.

Our fully automated, closed-system production is designed for strict process control, including **temperature regulation (0–37 °C)**, **inert nitrogen protection with dew point below -20 °C**, and **oxygen control below 4%**, ensuring material integrity throughout the manufacturing process.

Advanced pin mill and precision blending technologies enable tightly controlled particle size distribution, rapid solubility, and exceptional mixing uniformity, **achieving up to one-in-100,000 homogeneity** for consistent performance.

### ■ Proven GMP Manufacturing Track Record

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CelluPro has established a strong commercial manufacturing record with **over 700 GMP production batches** and a **> 98% quality pass rate**, ensuring reliable and on-spec delivery for global biopharmaceutical customers.

### ■ Digital Manufacturing & Traceability

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A fully integrated MES system enables end-to-end digital production management, ensuring audit-ready quality control and full traceability across all manufacturing processes. **Take a VR Tour to Our Facility** →



## Quality Systems

CelluPro operates a comprehensive quality management system covering the full product lifecycle, from raw material sourcing to manufacturing, testing, and final product release, ensuring consistent quality, regulatory compliance, and supply reliability.

### Material Management

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- Qualified supplier screening and periodic audits, supported by a dual-sourcing system.
- Batch-level material inspection and release, with priority use of pharmaceutical-grade raw materials.
- Custom sourcing supported for client-specific requirements.



### Production Management

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- MES-enabled production for precise process control.
- Pin mill-based automated manufacturing ensuring uniform mixing and batch consistency.
- CIP system compliant with WFI-grade cleaning standards.
- End-to-end in-process quality monitoring.



### Analytical Testing

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- High-precision analytical platforms (UPLC, ICP-OES, particle size analysis).
- Methods aligned with pharmacopoeia standards and fully validated.
- Digital systems ensure data integrity and traceability.
- Controlled testing environments with class C/A clean areas.



**Final Product Release & Logistics Assurance**

- Batch release testing aligned with ChP/USP/EP/JP standards.
- Ongoing quality review and data analysis.
- Validated logistics solutions, including ambient and cold chain distribution.



**Certifications & Compliance Standards**

**EXCiPACT Certification** - GMP certification for pharmaceutical excipients suppliers

**In accordance with pharmaceutical cGMP standards:**

**ISO 13485** - Medical Devices Quality Management System

**ISO 9001** - Quality Management System

**Global Compliance & Sustainability Commitment:**

**ISO 14001** - Environmental Management System (ESG commitment)

**ISO 22301** - Business Continuity Management System

**ISO 45001** - Occupational Health & Safety Management System



## Why Choose GMP-Grade Cell Culture Media



CelluPro **GMP-grade cell culture media** are specifically designed to support robust, scalable, and regulatory-compliant bioprocessing from early development to commercial manufacturing. Unlike research-use-only (RUO) media, **GMP-grade media** provides the ultimate solution to ensure **reliability, consistency, and regulatory readiness** throughout the drug development process.

### Consistent Performance at Scale

CelluPro GMP-grade media ensure robust cell growth, high viability, and reproducible productivity with strong lot-to-lot consistency.

### Reliable Product Quality

Formulated under controlled manufacturing systems, supporting stable critical quality attributes (CQAs), including glycosylation, purity, and structural consistency.

### Scalable and Robust Manufacturing

Designed for seamless transition from process development to pilot and large-scale commercial bioreactors with minimized process variability.

### Accelerated Process Development

Helps reduce optimization cycles and improves process efficiency, supporting faster progression from development to clinical manufacturing.

### Regulatory-Ready Quality System

CelluPro GMP-grade media ensure robust cell growth, high viability, and reproducible productivity with strong lot-to-lot consistency.

# Product Catalogue

## 01

### Serum-Free CHO Platform for Recombinant Protein and Antibody Expression

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### Solutions for Cell and Gene Therapy

CelliMax® Integrated MSC Culture Solution	Page/20
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# Serum-Free CHO Platform for Recombinant Protein and Antibody Expression



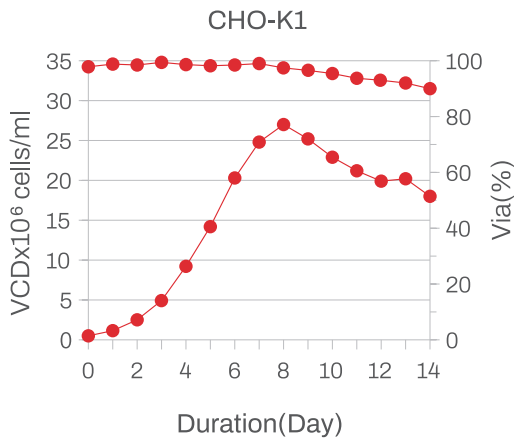
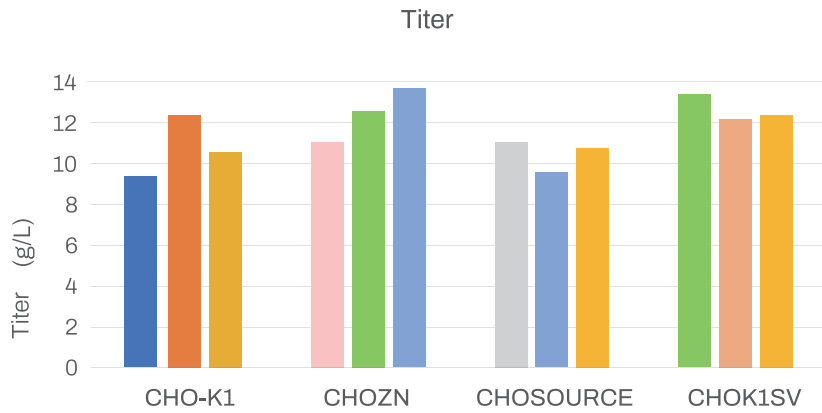
## ■ CelliMax® Basal and Feed Media for CHO Cell Culture

A proprietary CHO cell-specific **GMP grade chemically defined** media portfolio has been developed based on CHO cellular metabolism. The portfolio comprises basal and feed media designed to support robust cell growth and protein expression across commonly used CHO production cell lines, such as CHO-K1, CHOZN® (Merck), CHOK1SV GS-KO® (Lonza), CHOSOURCE™ CHO-K1 (Revvity), CHO-DG44, CHO-DXB11.

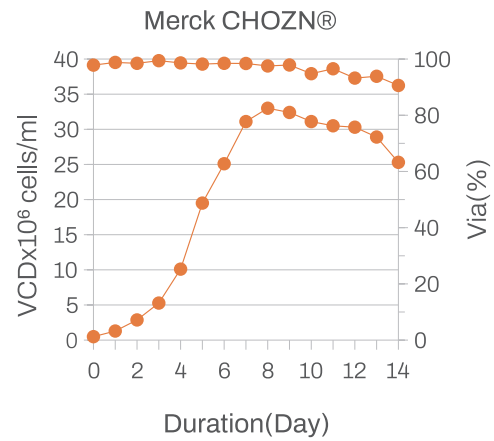
### ● Featured Products

Product Name	Type	Cat. No.	Specification	Suitable Cells
CelliMax® CHO E Medium	Basal medium (GMP Grade)	CPDP037	10 L, 100 L, 500 L	CHO-K1, CHO-DG44, CHO-S, CHO-DXB11
CelliMax® CHO E plus Medium	Basal medium (GMP Grade)	CPDP066	10 L, 100 L, 500 L	CHO-K1, CHO-DG44, CHO-S, CHO-DXB11, CHOZN
CelliMax® CHO M Medium	Basal medium (GMP Grade)	CPDP046	10 L, 100 L, 500 L	CHO-K1, CHOK1SV GS-KO, CHOSOURCE CHO-K1, CHO-S
CelliMax® MetaCHO Medium	Basal medium (GMP Grade)	CPDP050	10 L, 100 L, 500 L	CHO-K1, CHOK1SV GS-KO, CHOSOURCE CHO-K1, CHO-DG44, CHO-DXB11
CelliMax® Zeta02 plus Medium	Basal medium (GMP Grade)	CPDP089	10 L, 100 L, 500 L	CHOZN, CHO-K1
CelliMax® CHO FGa Medium	Feed medium A (GMP Grade)	CPDP062	1 L, 5 L, 20 L, 100 L	CHO-K1, CHOK1SV GS-KO, CHOSOURCE CHO-K1, CHO-DG44, CHO-DXB11
CelliMax® CHO FGa plus Medium	Feed medium A (GMP Grade)	CPDP067	1 L, 5 L, 20 L, 100 L	CHOZN, CHO-K1, CHOSOURCE CHO-K1, CHO-DG44, CHO-DXB11
CelliMax® CHO FGb Medium	Feed medium B (GMP Grade)	CPDP064	1 L, 10 L	CHOZN, CHO-K1, CHOK1SV GS-KO, CHOSOURCE CHO-K1, CHO-DG44, CHO-DXB11

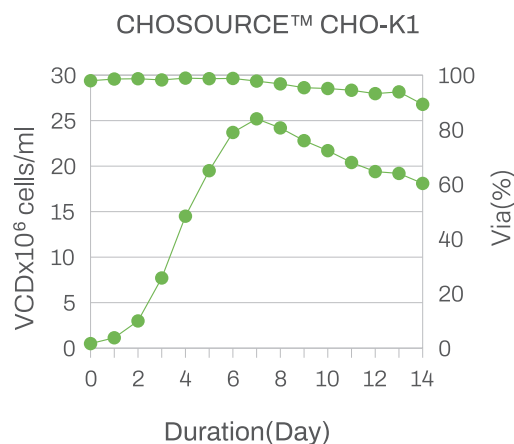
● Product Performance



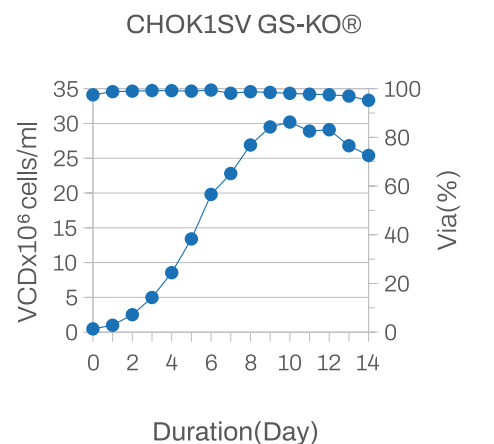
- VCD-CelliMax<sup>®</sup> CHO E+CelliMax CHO FGa/FGb
- Via-CelliMax<sup>®</sup> CHO E+CelliMax CHO FGa/b



- VCD-CelliMax<sup>®</sup> Zeta02 plus + CelliMax<sup>®</sup> CHO FGa plus/FGb
- Via-CelliMax<sup>®</sup> Zeta02 plus + CelliMax<sup>®</sup> CHO FGa plus/FGb



- VCD- CelliMax MetaCHO + CelliMax CHO FGa/FGb
- Via- CelliMax MetaCHO + CelliMax CHO FGa/FGb



- VCD-CelliMax CHO M + CelliMax CHO FGa/FGb
- Via-CelliMax CHO M + CelliMax CHO FGa/FGb

## CelliMax® Versa Medium

### Next-Generation Mammalian Cell Culture Solution

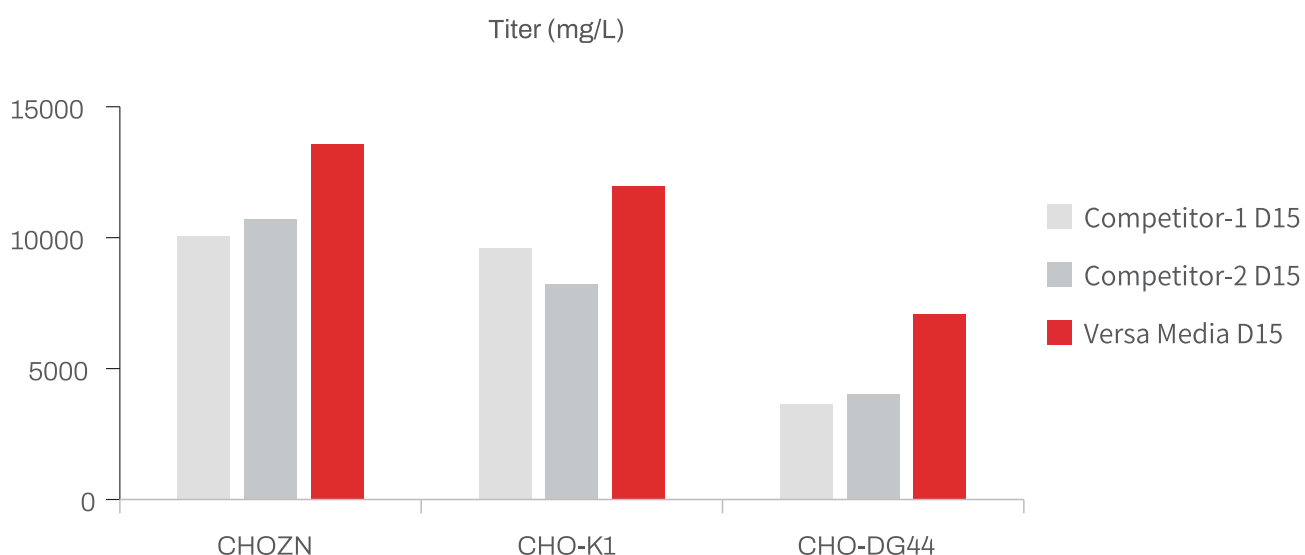
CelliMax® Versa Medium is a GMP grade chemically defined medium optimized for multiple CHO cell culture systems, supporting robust cell growth and stable recombinant protein expression. The medium has also been validated for HEK293 cell culture applications.

- Chemically defined, animal component-free, and hydrolysate-free
- Supports high-density cell growth and strong proliferation performance
- Combined with the CelliMax® CHO FGa (plus)/FGb feed system, it enables a robust and scalable culture workflow

Product Name	Type	Cat. No.	Specification	Suitable Cells
CelliMax® Versa Medium	Basal medium (GMP Grade)	CPDP098	10 L, 100 L, 500 L	CHO-K1, CHOZN, CHO-DG44, CHO-S, CHO-DXB11, CHOK1SV GS-KO CHOSOURCE™ CHO-K1, HEK293

### Performance

- Strong cell culture performance with high protein expression



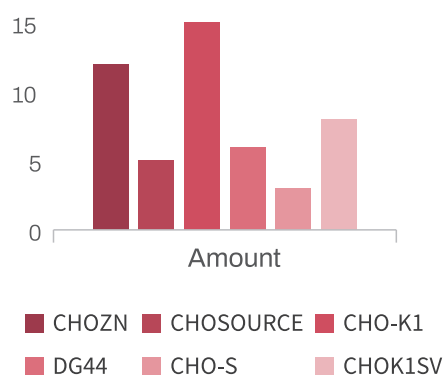
## CellFit™ Customized Development Platform

CelluPro offers tailored formulation services to develop customized cell culture media designed for specific process requirements. CelluPro has supported **over 50 customized development projects** across IND, clinical, and commercial-stage programs. We have also completed **more than 20 media replacement projects**, achieving an **average yield improvement of over 50%**.

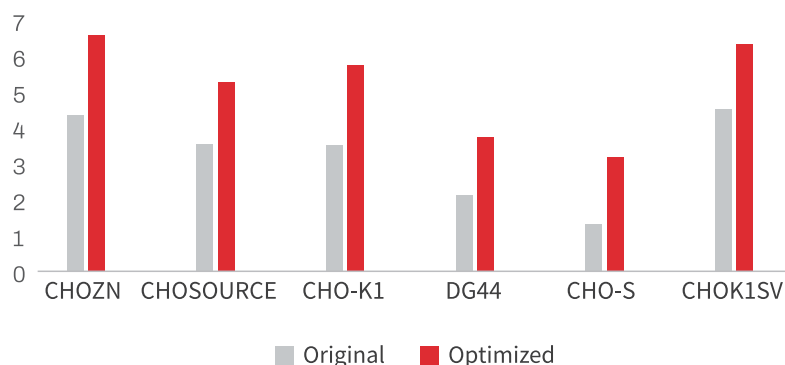


- Tailored cell culture media solutions supported by extensive formulation databases and rich DoE optimization experience
- Fully in-house media development capabilities with end-to-end technical support
- Flexible project timelines ranging from 3–12 months, supporting programs from preclinical development to commercial manufacturing

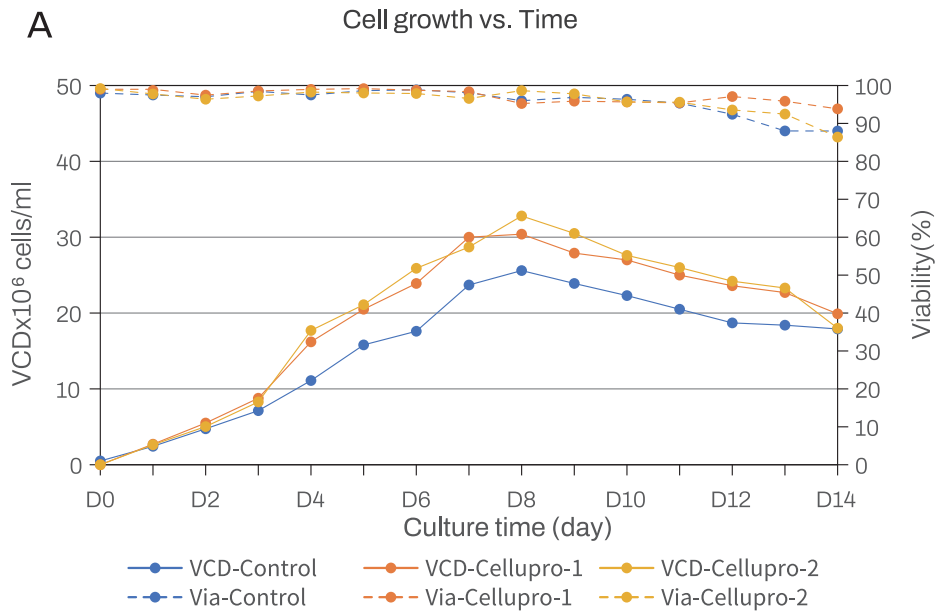
Cell Line Case Amount



Titer Enhancement

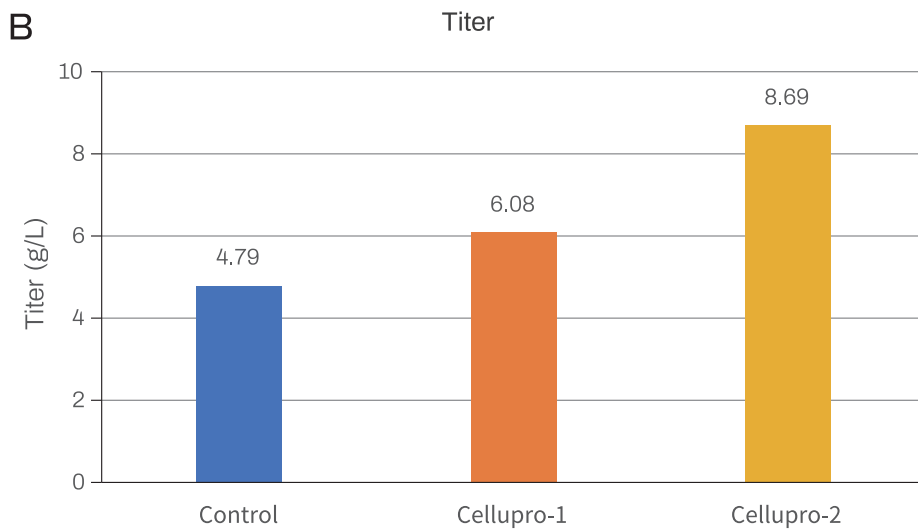


**Case Study 1**



• The figure shows Fed-batch phase data for CHO-K1 cell line expressing monoclonal antibody cultured in CelluPro customized media.

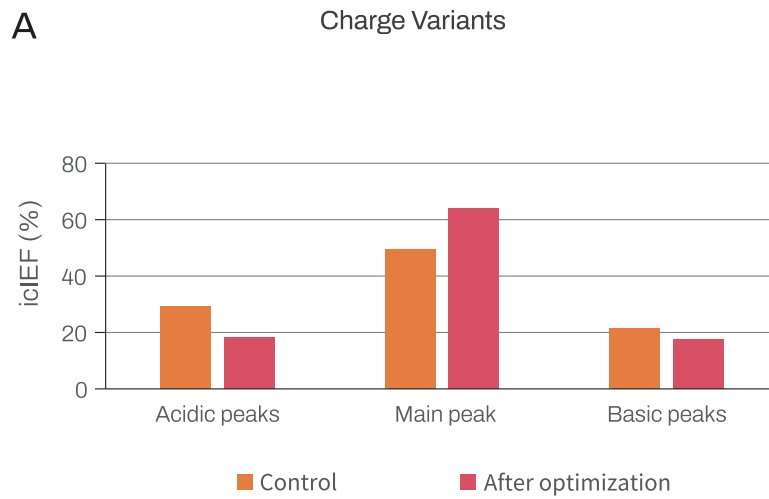
Figure (A): While maintaining consistency with the original process, CelluPro customized media significantly increased the viable cell density (VCD) and peak VCD of the client’s original process, and maintained good cell viability(Via) in the late culture stages.



• The figure shows Fed-batch phase data for CHO-K1 cell line expressing monoclonal antibody cultured in CelluPro customized media.

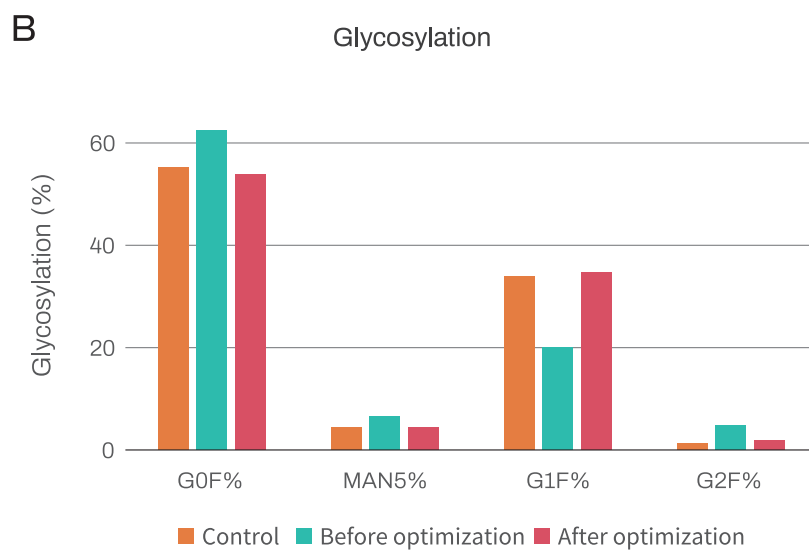
Figure (B): through CellPro’s customized optimization of the media for this cell line, the client’s expression level significantly increased to 8.69g/L.

● Case Study 2



● The figure shows client antibody quality optimization data.

Figure (A): Through optimization of the media formulation and culture process, the charge distribution characteristics of the antibody were significantly improved.



● The figure shows client antibody quality optimization data.

Figure (B): In response to the client's need for glycosylation modification, media formulation optimization achieved a high similarity between the antibody glycan profile and that of the originator drug.

## ■ DurePro® Perfusion Media Series

### Up to 800 mg total protein yield in just a 10 mL tube culture

**DurePro® Perfusion Media Series** includes ready-to-use, nutrient-enriched GMP-grade medium expertly formulated for N-stage perfusion processes in continuous protein production, designed to suppress excessive cell proliferation, maximize specific productivity, and sustain long-term steady-state culture of CHO cells with superior process consistency and bioproduction efficiency.

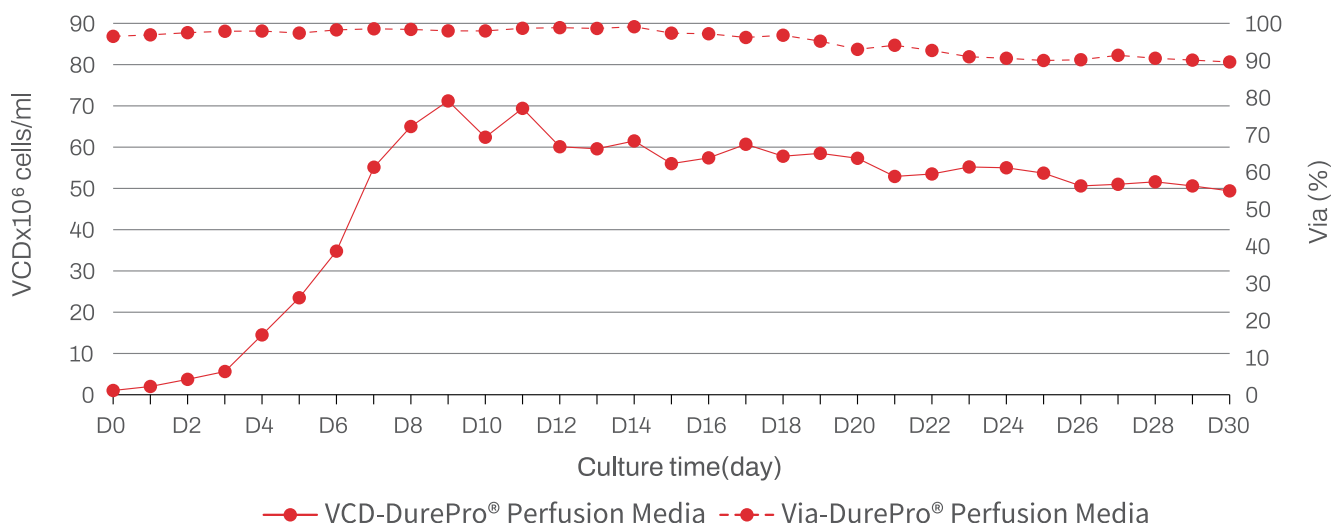
- Ready-to-use, chemically defined, no supplements or feeds required
- Cumulative protein yield up to 80 g/L within 30 days
- Exceptional liquid stability for over 45 days at ambient temperature

### ● Featured Products

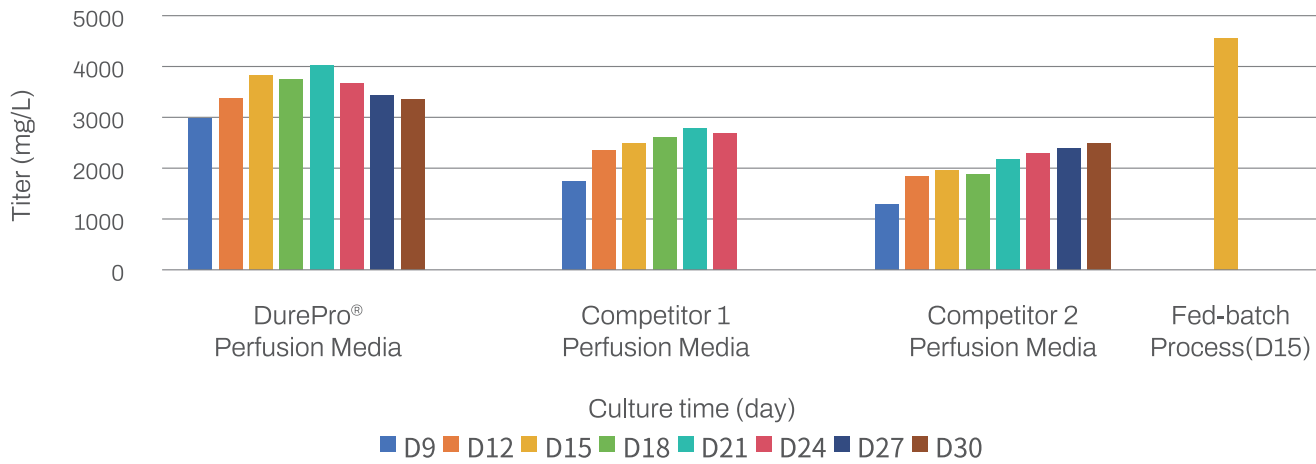
Product Name	Format	Cat. No.	Specification	Storage
DurePro® HD Perfusion Medium	Powder (GMP Grade)	CPDP082	5 L, 50 L, 500 L	2-8 °C
DurePro® EZ Perfusion Medium	Powder (GMP Grade)	CPDP084	5 L, 50 L, 500 L	2-8 °C

### ● Performance

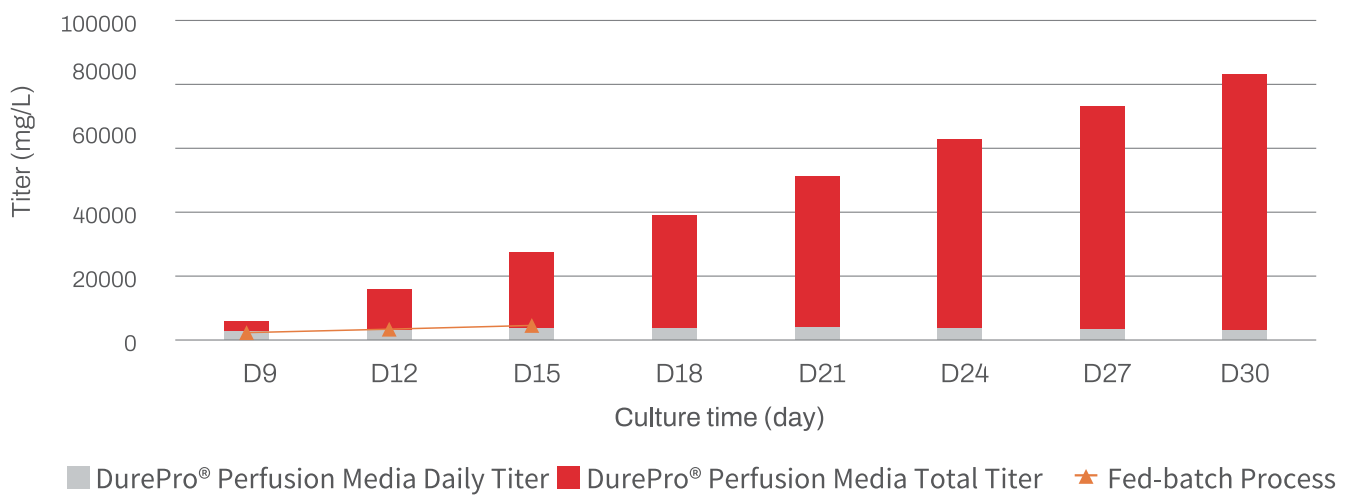
CHO-K1 Cell Perfusion in Shake Tube (VVD=1)



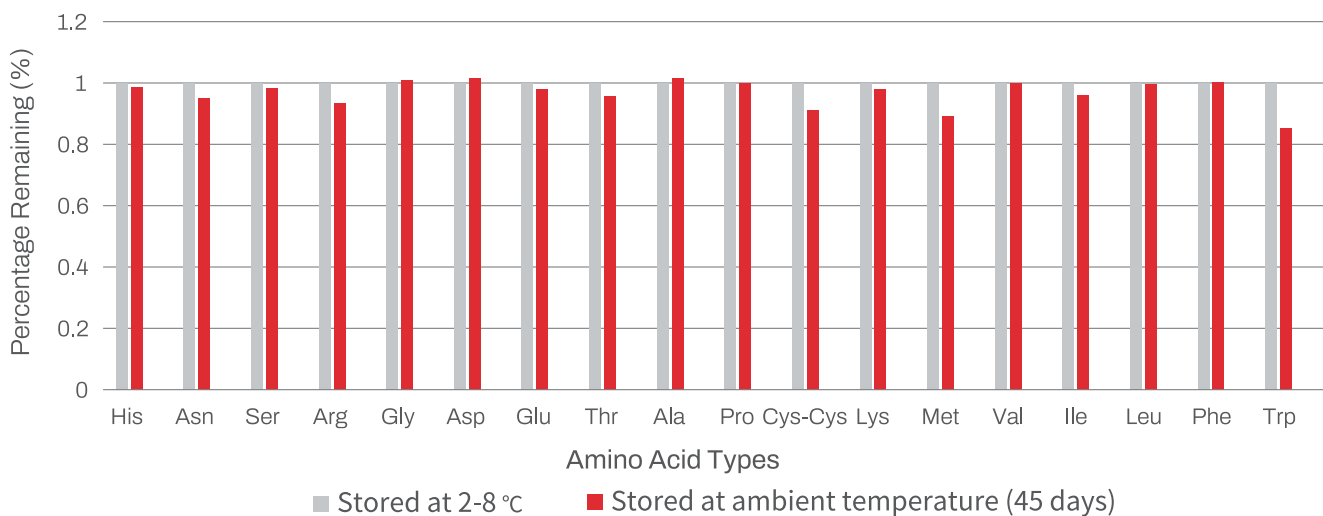
Daily Titer of Perfusion Process vs. Traditional Fed-batch Process



Cumulative Protein of Perfusion Process (30days) vs Fed-batch Process (15days)



Liquid Stability of DurePro® Perfusion Media at Ambient Temperature



## CelliMax<sup>®</sup> TransCHO Kit02

### Achieve gram-scale protein expression effortlessly

**CelliMax<sup>®</sup> TransCHO Kit02** — CelluPro’s flagship GMP-grade product for CHO transient expression — is a fully chemically defined platform compatible with multiple mainstream CHO cell lines, enabling a stable workflow from high-density suspension culture to efficient protein expression.

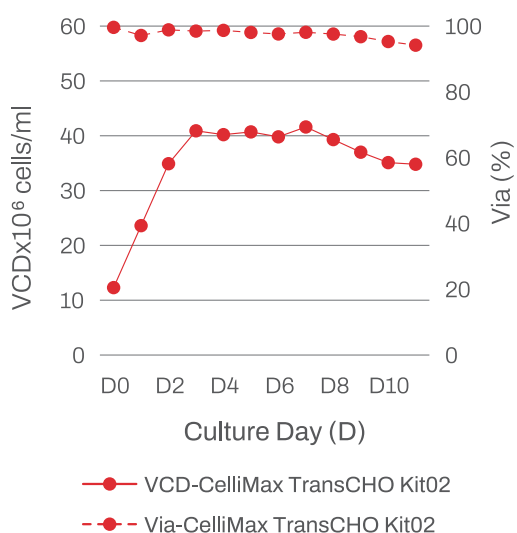
- Immediate transfection without pre-incubation, enabling rapid protein expression up to **2 g/L**
- Chemically defined (CD) medium, free of animal-derived components and hydrolysates
- Maintains high-density growth with high viability and extended culture support
- Compatible with both chemical and electroporation transfection

### Product Information

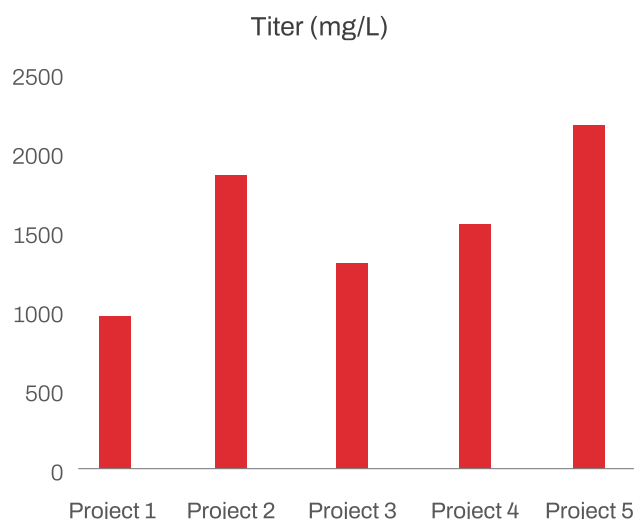
Product Name	Type	Cat. No.	Specification	GMP Grade
CelliMax <sup>®</sup> CHO P02 Medium	Basal Medium	TSCH02	1 L	✓
CelliMax <sup>®</sup> Uni FM03 Medium	Feed Medium			
CelliMax <sup>®</sup> CHO Enhancer	Enhancer			
CelliMax <sup>®</sup> CHO Trans Reagent02	Transfection Reagent			

### Product Performance

- Sustained high viability and stable cell condition



- Expression levels up to 2 g/L



## CelliMax® Trans293 Kit01

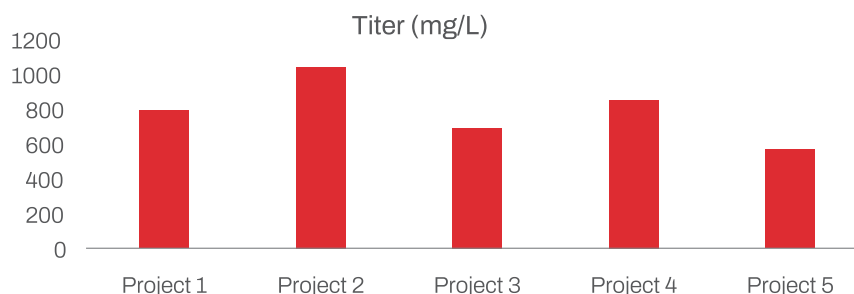
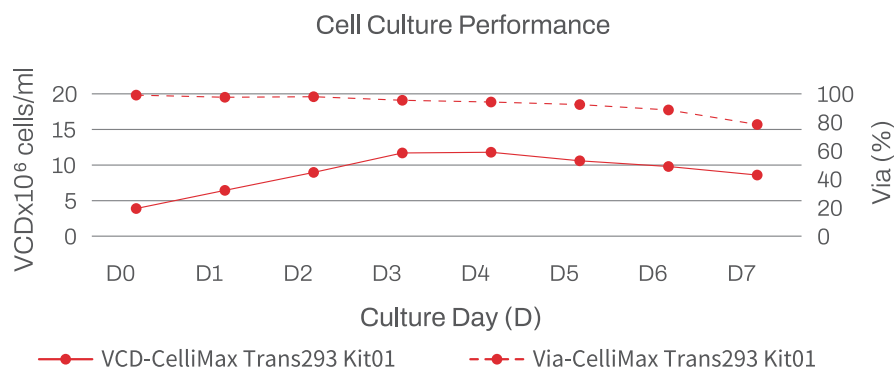
Enables high-density suspension culture with enhanced transient transfection efficiency and improved protein productivity. Provides an integrated **GMP-grade** solution for HEK293 transient expression workflows.

- Chemically defined (CD) medium, free of animal-derived components and hydrolysates
- Supports high-density suspension culture across multiple HEK293 subtypes
- Paired with a single feed for simplified operation
- Support robust protein expression up to **500–1000 mg/L within 7 days**
- Compatible with both chemical and electroporation transfection
- More cost-effective compared with leading international comparable products

### Product Information

Product Name	Type	Cat. No.	Specification	GMP Grade
CelliMax® 293 P01 Medium	Basal Medium			
CelliMax® Uni FM01 Medium	Feed Medium	TSHEK01	1 L	✓
CelliMax® 293 Trans Reagent	Transfection Reagent			

### Product Performance



## CelliMax<sup>®</sup> TransV-293 Kit03

Precisely optimized for diverse HEK293 cell lines to achieve high transfection efficiency and robust viral vector production.

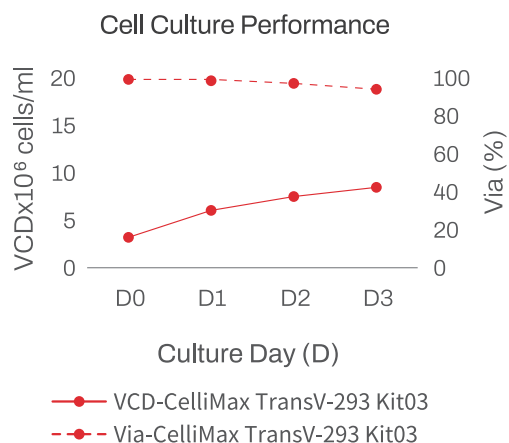
- **GMP-grade** Chemically defined (CD) medium, free of animal-derived components, hydrolysates, and growth factors
- Suitable for high-density suspension culture of different HEK293 subtypes, with transfection efficiency >90%
- AAV titers up to  $10^{11}$  vg/mL, lentiviral (LV) titers up to  $10^7$  TU/mL
- Broad applicability across AAV serotypes
- Low transfection reagent usage, reducing cytotoxic effects
- More cost-effective compared with leading international comparable products

### Product Information

Product Name	Type	Cat. No.	Specification	GMP Grade
CelliMax <sup>®</sup> TransV-B03	Basal Medium	TSVHEK02	1 L	✓
CelliMax <sup>®</sup> TransV-FM03A	Primary Feed Medium			
CelliMax <sup>®</sup> TransV-FM03B	Supplementary Medium			
CelliMax <sup>®</sup> TransV-Reagent	Transfection Reagent			
CelliMax <sup>®</sup> TransV-Enhancer	Enhancer			

\* AAV expression does not require Enhancer; lentiviral (LV) expression requires Enhancer.

### Product Performance



- AAV viral titer up to  $10^{11}$  vg/mL

Sample No.	Titer(vg/mL)	Purity(%)	Solid content (%)
CP01	$2.36 \times 10^{11}$	95	0.06
CP02	$2.44 \times 10^{11}$	95	0.07
CP03	$3.01 \times 10^{11}$	95	0.10



CelluPro is seeking strategic partners worldwide to deliver high-performance cell culture media solutions for the global biopharmaceutical industry.

## ■ Become Our Distributor

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Expand your bioprocess portfolio with CelluPro's high-performance cell culture media solutions. We provide distributors with stable global supply, technical training, marketing support, and responsive application services to support long-term business growth.

## ■ OEM / Contract Manufacturing

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Leveraging fully integrated in-house manufacturing and cGMP-compliant quality systems, CelluPro offers flexible OEM and contract manufacturing services for cell culture media production, supporting scalable and reliable supply from development to commercial manufacturing.

## ■ Co-Branding Partnership

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CelluPro supports co-branding collaborations with strategic partners, enabling customized product portfolios, joint market development, and flexible commercialization models tailored to regional and customer needs.

# CELLUPRO



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## INFORMATION

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