CELLTHEON
EXPRESSION TECHNOLOGIES

OmniCHO™ TRANSIENT EXPRESSION KIT

INNOVATION IS IN OUR DNA

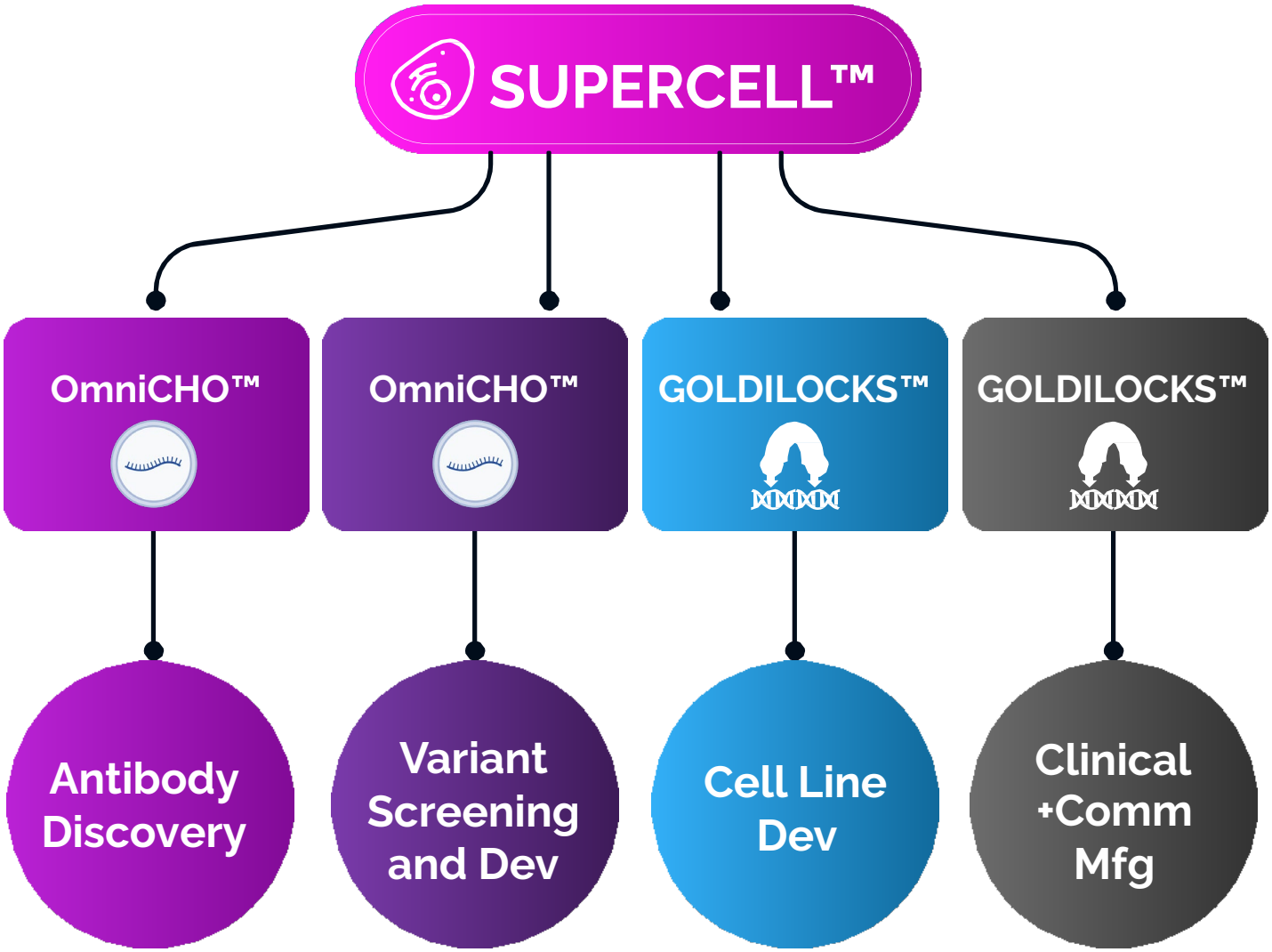


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The OmniCHO™ Kit

The OmniCHO™ Kit is a comprehensive solution for high-yield transient expression of recombinant proteins. This versatile kit empowers researchers to efficiently produce a wide range of recombinant proteins at titers previously unattainable with transient systems, revolutionizing the landscape of protein production for research and development.

The OmniCHO™ Transient Expression Platform shares its SUPERCELL™ CHO-K1 foundation with the GOLDILOCKS™ stable platform supporting end-to-end development from preclinical research through commercial manufacturing on a single CHO-K1 Platform.

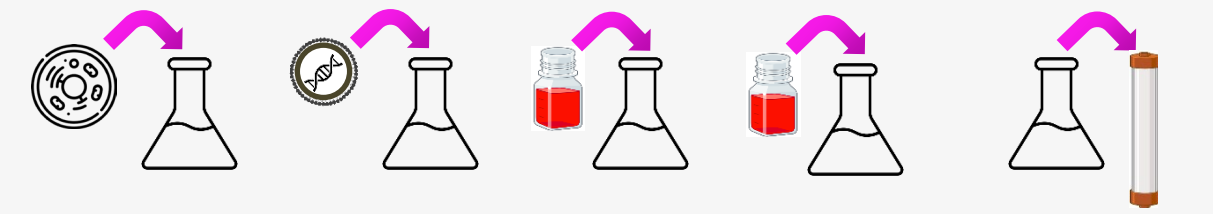


The OmniCHO™ Advantage

The OmniCHO™ Transient Expression Platform shares its SUPERCELL™ CHO-K1 foundation with the GOLDILOCKS™ stable platform. This highly versatile and productive system can save millions of dollars during drug discovery and development stages compared to other systems. Its industry-leading features include:

1. **EXCEPTIONAL PRODUCTIVITY:** Multi-gram per liter titers for a wide range of proteins resulting in 6-30X cost savings compared to other systems
2. **UNPARALLELED SCALABILITY:** Consistent titers from 2mL to 50L scales
3. **FLEXIBLE HARVEST WINDOW:** Linear protein production from days 2 to 12 post-transfection
4. **VERSATILE EXPRESSION:** From standard mAbs to complex fusion proteins and previously "unexpressible" molecules.
5. **SEAMLESS TRANSITION TO STABLE PRODUCTION:** Critical Quality Attributes (CQAs) obtained with OmniCHO™ carry over to clinical and commercial manufacturing with the GOLDILOCKS™ stable platform

The OmniCHO™ Platform offers a simple and robust workflow that can be automated for high throughput production:



DAY -1: CELL SEEDING	DAY 0: TRANSFECT	DAY 1: FEED	DAY 6: FEED	DAY 12: HARVEST

OMNICHO™ MAX TITER PROCESS

1. Exceptional Productivity & Cost Savings

OmniCHO™ 's exceptional productivity means:

- 6-30X fewer transient kits needed for your preclinical programs
- Drastically improved throughput in ability to screen variants
- Drastically reduced labor spent in large scale protein production

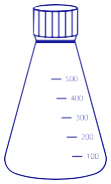
Transient Yield Comparison at Different Scales (mg)			
	OmniCHO™	CHO-s Based	HEK Based
24w DWP	3.5	0.4	0.15
Spin Tube	25	4	1.5
50mL w.v. flask	125	20	7.5
100mL w.v. flask	250	40	15
200mL w.v. flask	500	80	30
500mL w.v. flask	1250	160	60
1000mL w.v. flask	2500	260	97.5
10L w.v. WAVE	25000	1200	450

OTHER PLATFORMS

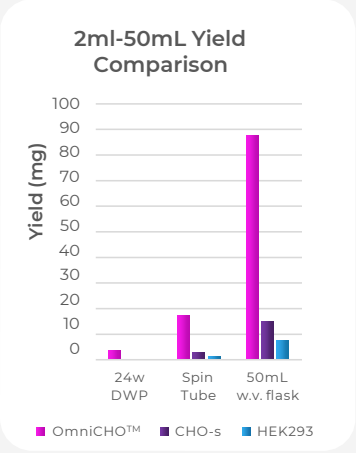


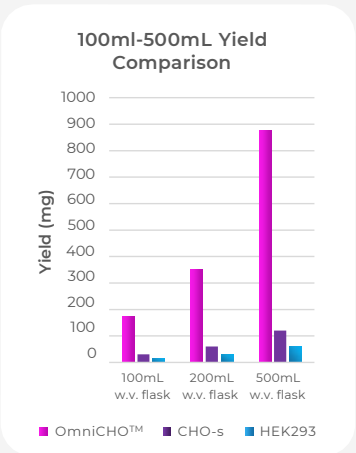
- Produce 1g in 10L
- Need 10 kits
- Need more infrastructure

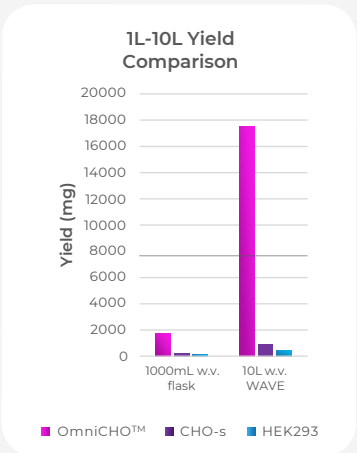
OMNICHO ™



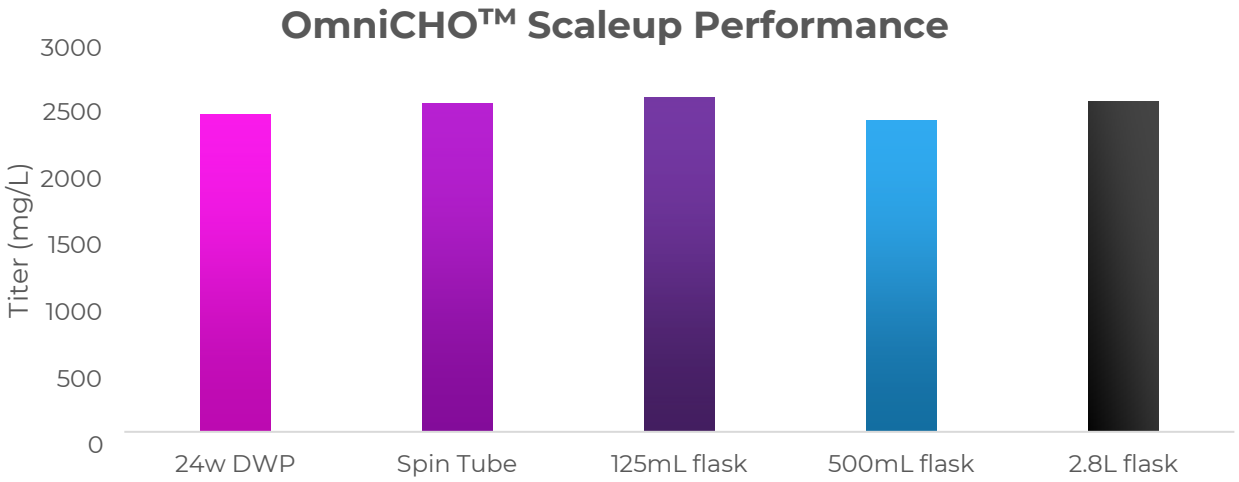
- Produce >1g in 0.5L
- Need 1 kit
- Use shake flasks



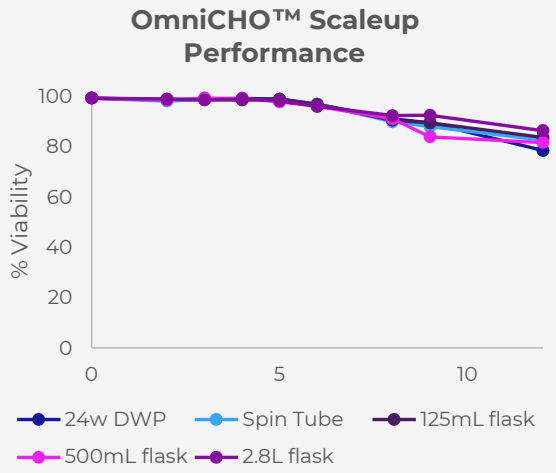


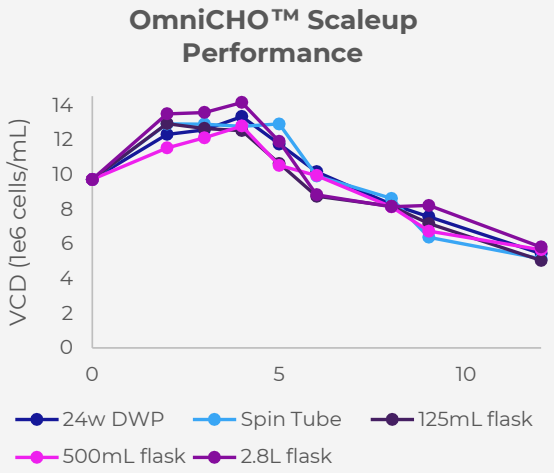


2. Consistent Productivity at Scale



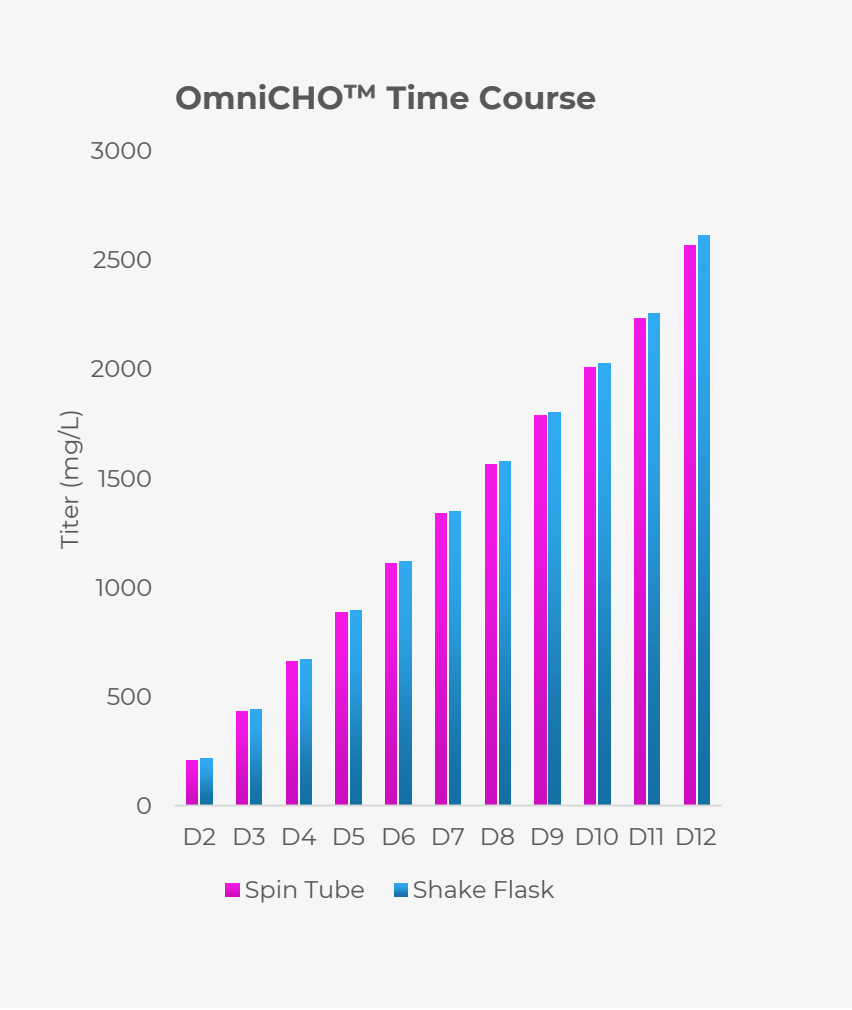
- **LINEAR SCALABILITY:** Predictable protein yields across all scales, eliminating guesswork in production planning
- **COST-EFFECTIVE:** Eliminates need for excess scale-up, saving time, materials, and costs
- **IMPROVED THROUGHPUT:** Expression at lower volumes means more proteins can be handled at a time
- **SIMPLIFIED TECHNOLOGY** Transfer between R&D and clinical phases

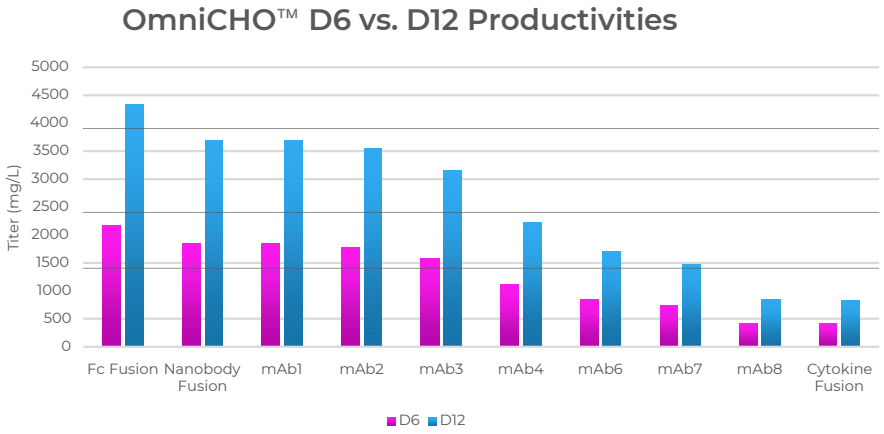




3. Flexible Harvest Windows

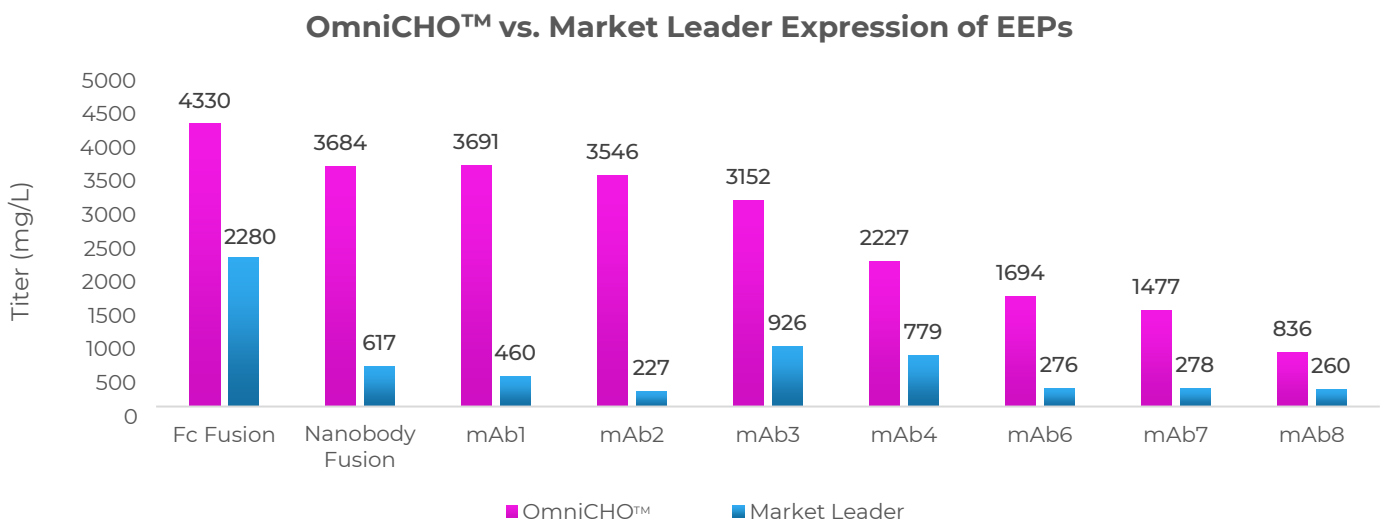
- **RAPID HIGH-YIELD PRODUCTION**: Achieve multi-gram per liter titers in less than one week, surpassing traditional transient cell capabilities
- **ENHANCED PRODUCT QUALITY:** Early harvest options minimize protein degradation, aggregation, and clipping, especially beneficial for sensitive molecules like probodies and challenging non-mAbs
- **ACCELERATED TIMELINES:** Flexibility to harvest earlier reduces overall production time, speeding up development cycles
- **RISK MITIGATION:** Ability to harvest early if needed provides a safety net for unexpected stability issues or urgent material requirements





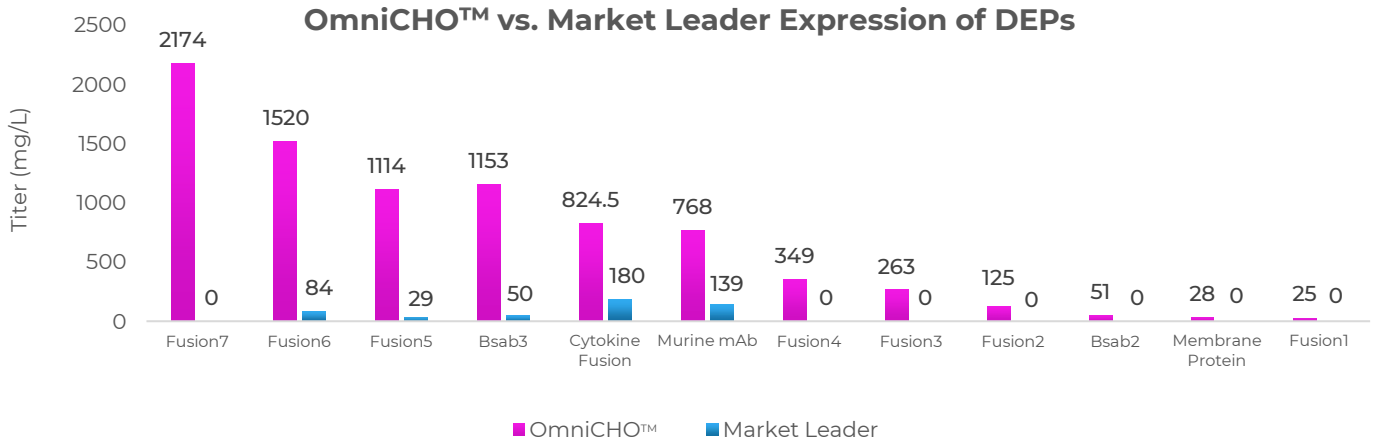
D6 productivities average >1g/L replacing need for HEK293 for rapid production protocols

4. Versatile Transient Expression Platform



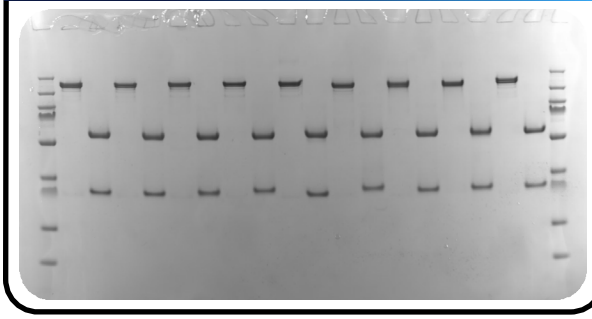
OmniCHO™ enables reliable, high-yield production of a wide range of proteins, streamlining development pipelines across multiple therapeutic modalities including:

- **Standard mAbs, bispecifics, and antibody fragments**
- **Complex fusion proteins**
- **Challenging antigens**
- **Previously inexpressible proteins**

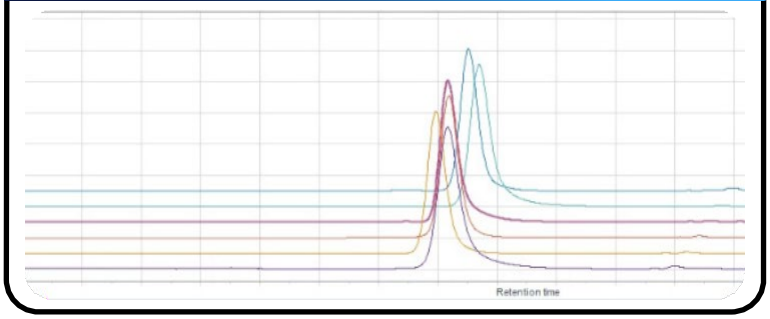


5. CQAs carry over from Transient to Stable production

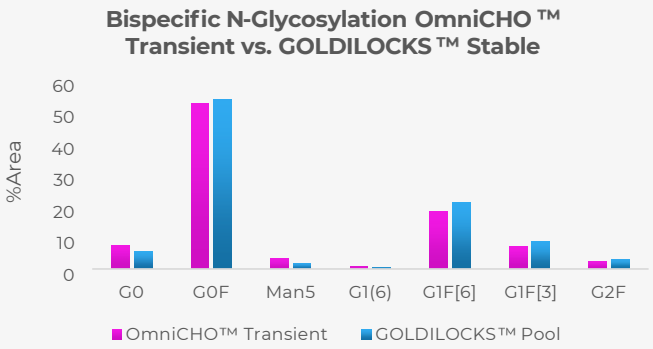
SDS-PAGE for 9 mAbs purified by ProA

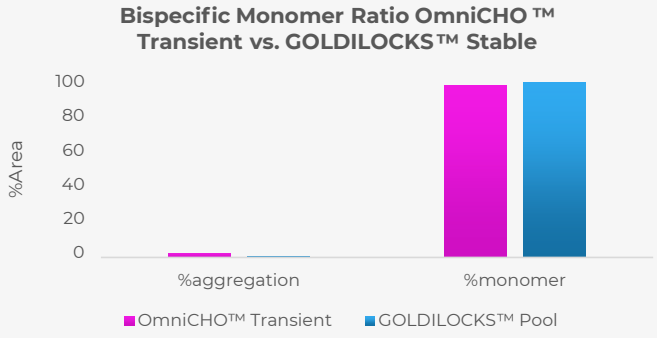


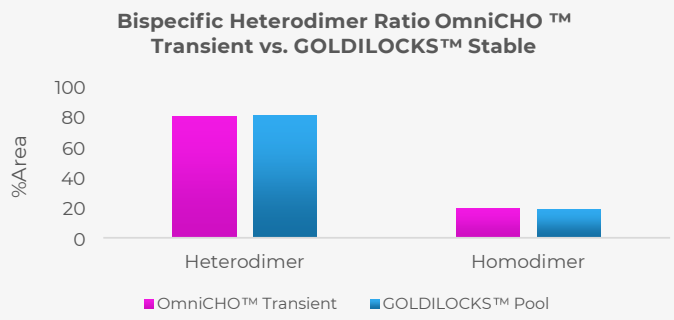
SE-HPLC for 9 mAbs purified by ProA

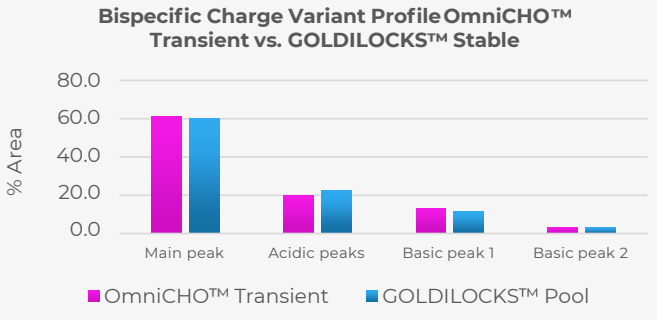


Early-stage Critical Quality Attributes (CQAs) obtained with OmniCHO™ transients carry over to clinical and commercial manufacturing with the GOLDILOCKS™ stable platform enabling predictive and streamlined product development









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The OmniCHO™ Kit



PART #	DESCRIPTION	CONTENTS	UNIT
CT-OMC-001	OmniCHO™ Starter Kit	OmniCHO™ cells, pOMNI™ Vector and OmniCHO™ SOP	1 kit
CT-OMC-002	1L OmniCHO™ Transfection Kit	ACFT™ transfection reagent, OmniCHO™ Feed1, OmniCHO™ Feed2	1L
CT-OMC-003	5L OmniCHO™ Transfection Kit	ACFT™ transfection reagent, OmniCHO™ Feed1, OmniCHO™ Feed2	5L
CT-OMC-004	1L OmniCHO™ Media	OmniCHO™ media	1 L
CT-OMC-005	10L OmniCHO™ Media	OmniCHO™ media	10 L

Send enquiries to: orders@celltheon.com