Culture smarter, innovate faster

Boost Your Transient Transfection Expression with OPM-293 Platform

From transfection to titer: HEK293-ready media, feeds, and reagents delivering robust transients, higher recombinant protein yields, and reliable membrane protein results.

Why OPM-293 Platform?

- >1 g/L protein in high-density HEK293 cultures
- Chemically defined for robust, reproducible results
- GMP-ready for seamless transition from R&D to GMP
- Consistent quality with RSD <5% lot-to-lot

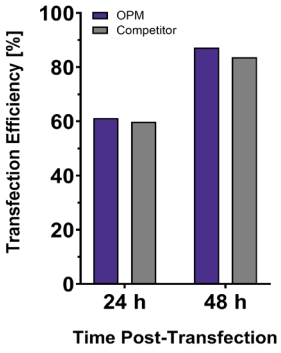
Research-Grade Products	GMP-Grade Equivalent Products	Available Sizes
CarpTrans™ Transfection Reagent	CarpTrans™ Transfection Reagent	• 1 mL • 5 mL • 50 mL • 50 g (DPM*)
293F Hi-exp™ Basal Medium	OPM-293™ CD05 Basal Medium	• 1 L • 10 L (DPM) • 50 L (DPM) • 100 L (DPM)
293F Hi-exp™ Feed	OPM-293™ ProFeed	• 100 mL • 1 L • 10 L (DPM)
Corevo™ 293 Basal Media Series: • Corevo 293 Flux • Corevo 293 Deep • Corevo 293 Quick	Corevo™ 293 Basal Media Series: • Corevo 293 Flux • Corevo 293 Deep • Corevo 293 Quick	• 1 L
Harvest™ 293F Expression System (Plus)	Please inquire	• 1 L/kit

*DPM = Dry Powder Media

CarpTrans Transfection Reagent

- High transfection efficiency – maximize protein and antibody yields
- Broad compatibility – HEK293, CHO, and other mammalian lines

Transfection in Suspension Culture (Expi293)



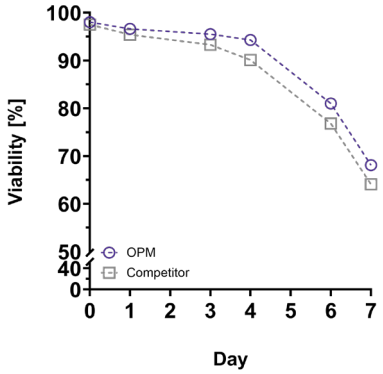
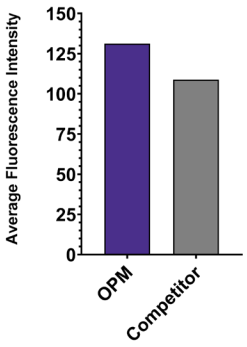


Figure. Expi293 cells were cultured to a density of 3x10^6 cells/mL and transfected using CarpTrans or a leading competitor transfection reagent. **(Left)** Transfection efficiency was measured at 24 hr and 48 hr post-transfection. **(Right)** Cell viability measurements pre- (day 0) and post-transfection.

Transfection Efficiency of Adherent Cells (HEK293T)



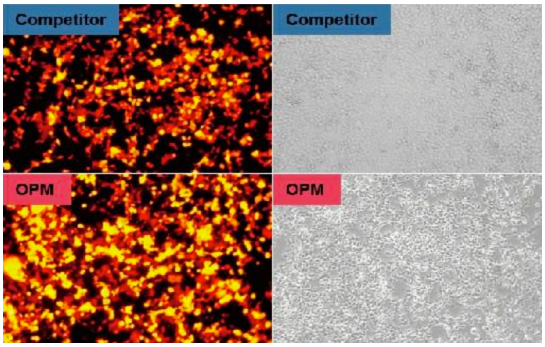
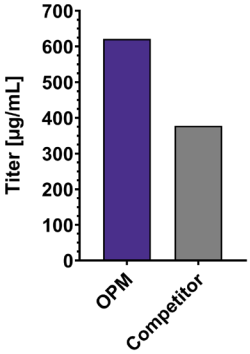


Figure. HEK293T cells were cultured to cover 80% of the plate and transfected using CarpTrans or the same competitor transfection reagent as above. **(Left)** The average fluorescence intensity of mCherry detected at 48 hr post-transfection. **(Right)** Fluorescence and brightfield micrographs of cells at 48 hr post-transfection.

Protein Expression After Transfection (mAb)



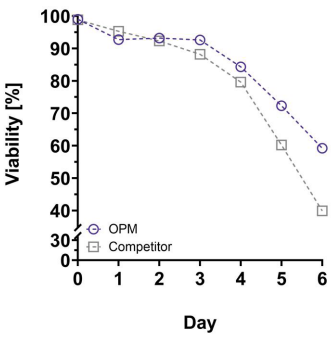


Figure. Expi293F cells were cultured to a density of 3x10^6 cells/mL and transfected using CarpTrans or the same competitor transfection reagent as above to express a monoclonal antibody (mAb). **(Left)** mAb titer was measured at day 6 post-transfection. **(Right)** Cell viability measurements pre- (day 0) and post-transfection.

293F Hi-exp Basal Media and Feeds

- Smooth transition from discovery to GMP:
  - Research-grade: 293F Hi-exp Media and Feed
  - GMP-grade equivalents: OPM-293 CD05 Media and ProFeed

- Flexible packaging in dry powder or liquid formats

- Dual-site manufacturing ensures stable supply:
  - Up to 2000 kg/lot (DPM)
  - Up to 2000 L/lot (liquid)

Improved Titer for Three Different Monoclonal Antibodies

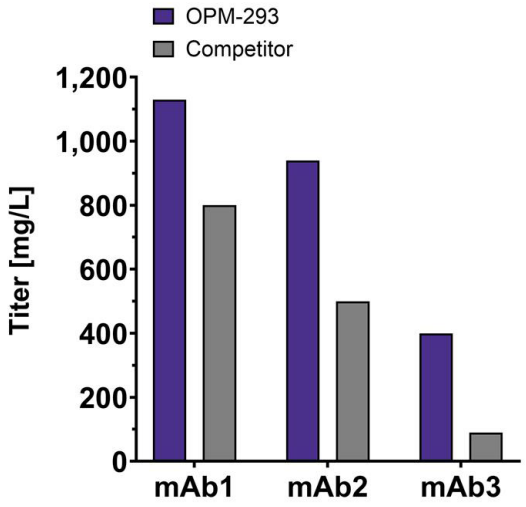


Figure. Cells were cultured in OPM-293 CD05 (GMP) media or a leading competitor's media and transfected with one of three plasmids encoding for different monoclonal antibodies (mAb1, mAb2, mAb3). Titers were measured, demonstrating that the OPM-293 platform consistently outperformed the competitor, achieving significantly higher titers for all three mAbs.

Comparison of Monoclonal Antibody Titers Across Three Lots

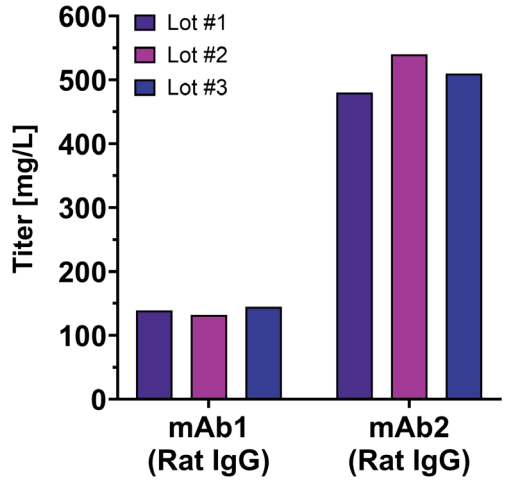


Figure. Titer measurements for two different monoclonal antibodies (mAb1 and mAb2, both rat IgG) demonstrate consistent expression levels for each across three independent lots of OPM-293 CD05 (GMP) media.

Media Selection Guide

Select the optimal media and feed for your target protein:

	Desired Protein Type to be Expressed				
	 **Secreted Protein**	 **Intracellular**		 **Membrane-Bound**	
		Single Unit	Complex*	Single Unit*	Complex*
Basal Medium	• 293F Hi-exp • OPM-293 CD05	• 293F Hi-exp • OPM-293 CD05	• Corevo 293 Flux • Corevo 293 Deep	• 293F Hi-exp • OPM-293 CD05 • Corevo 293 Flux • Corevo 293 Deep	• Corevo 293 Flux • Corevo 293 Deep
Feed	• 293F Hi-exp Feed • OPM-293 ProFeed				

*Please inquire for more technical support

Explore our high-performance cell culture media today. Learn more at opmbio.com.

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