



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

Products	Grade	Available Sizes
CarpTrans™ Transfection Reagent	Research & GMP grade available	• Liquid: 1 / 5 / 50 mL • Powder: 100 mg / 1 g / 50 g
293F Hi-Exp™ Medium	Research grade	• Liquid: 1000 mL
OPM-293 CD05 Medium	GMP grade	• Liquid: 1000 mL
293F Hi-Exp™ Feed	Research grade	• Liquid: 100 / 1000 mL
OPM-293 ProFeed	GMP grade	• Liquid: 100 / 1000 mL
Corevo™ 293 Basal Media Series: • Corevo 293 Flux • Corevo 293 Deep • Corevo 293 Quick	Research & GMP grade available	• Liquid: 1000 mL
Harvest™ 293F Expression System (Plus) Kit	Research grade	Kit consists of: • 1 x CarpTrans Transfection Reagent (5 mL) • 1 x 293F Hi-Exp Medium (1000 mL) • 1 x 293F Hi-Exp Feed (100 mL)

CarpTrans Transfection Reagent

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

Transfection in Suspension Culture (Expi293)

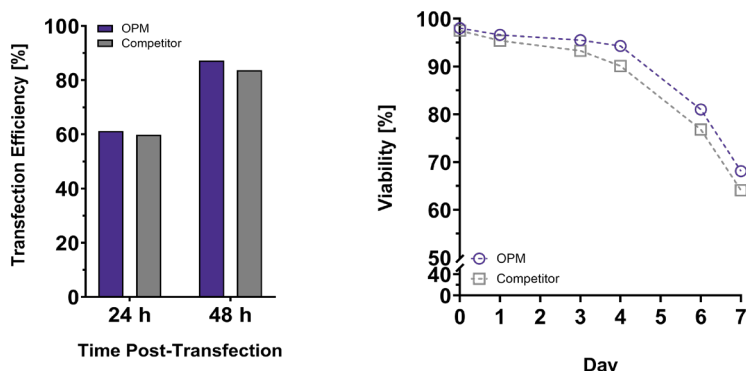


Figure. Expi293 cells were cultured to a density of 3×10^6 cells/mL and transfected using CarpTrans or a leading competitor transfection reagent. **(Left)** Transfection efficiency was measured at 24 hr and 48 hr post-transfection. **(Right)** Cell viability measurements pre- (day 0) and post-transfection.

Transfection Efficiency of Adherent Cells (HEK293T)

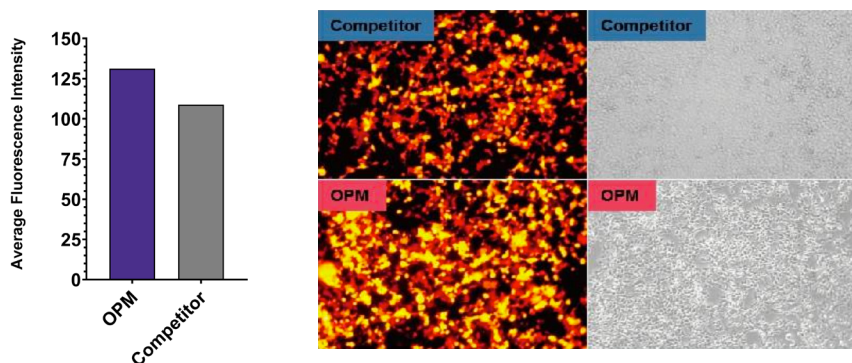


Figure. HEK293T cells were cultured to cover 80% of the plate and transfected using CarpTrans or the same competitor transfection reagent as above. **(Left)** The average fluorescence intensity of mCherry detected at 48 hr post-transfection. **(Right)** Fluorescence and brightfield micrographs of cells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

Protein Expression After Transfection (mAb)

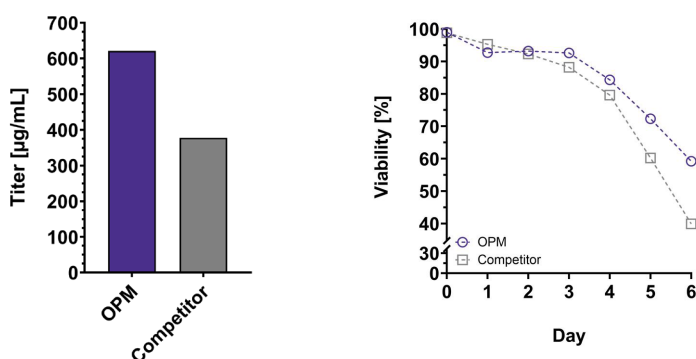


Figure. Expi293F cells were cultured to a density of 3×10^6 cells/mL and transfected using CarpTrans or the same competitor transfection reagent as above to express a monoclonal antibody (mAb). **(Left)** mAb titer was measured at day 6 post-transfection. **(Right)** Cell viability measurements pre- (day 0) and post-transfection.

Basal Media and Feeds for HEK293 Cultures

- Smooth transition from discovery to GMP
 - **Research-grade:** 293F Hi-exp Media and Feed
 - **GMP-grade:** 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

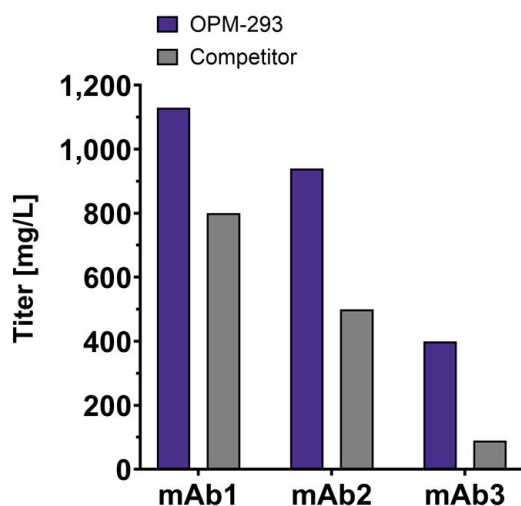


Figure. Cells were cultured in OPM-293 CD05 (GMP) media or a leading competitor's media and transfected with one of three plasmids encoding for different monoclonal antibodies (mAb1, mAb2, mAb3). Titers were measured, demonstrating that the OPM-293 platform consistently outperformed the competitor, achieving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

Comparison of Monoclonal Antibody Titers Across Three Lots

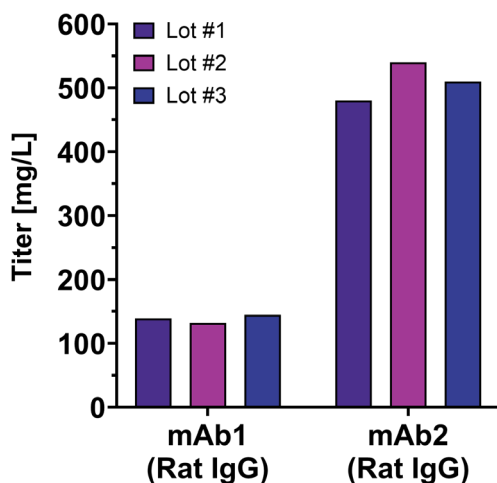


Figure. Titer measurements for two different monoclonal antibodies (mAb1 and mAb2, both rat IgG) demonstrate consistent expression levels for each across three independent lots of OPM-293 CD05 (GMP) media.

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.