



# 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?

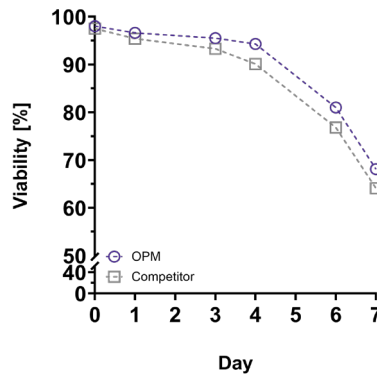
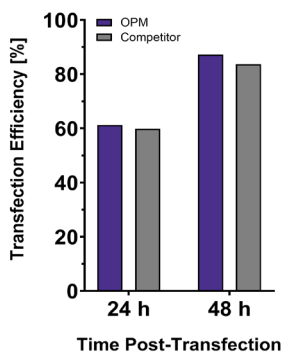
- >1 g/L protein in high-density HEK293 cultures
- Chemically defined for robust, reproducible results
- GMP-ready for seamless transition from R&D to GMP
- Consistent quality with RSD <5% lot-to-lot

Products	Grade	Available Sizes
CarpTrans™ Transfection Reagent	Research & GMP grade available	<ul style="list-style-type: none"> <li>• Liquid: 1 / 5 / 50 mL</li> <li>• Powder: 100 mg / 1 g / 50 g</li> </ul>
293F Hi-Exp™ Medium	Research grade	<ul style="list-style-type: none"> <li>• Liquid: 1000 mL</li> </ul>
OPM-293 CD05 Medium	GMP grade	<ul style="list-style-type: none"> <li>• Liquid: 1000 mL</li> </ul>
293F Hi-Exp™ Feed	Research grade	<ul style="list-style-type: none"> <li>• Liquid: 100 / 1000 mL</li> </ul>
OPM-293 ProFeed	GMP grade	<ul style="list-style-type: none"> <li>• Liquid: 100 / 1000 mL</li> </ul>
Corevo™ 293 Basal Media Series: <ul style="list-style-type: none"> <li>• Corevo 293 Flux</li> <li>• Corevo 293 Deep</li> <li>• Corevo 293 Quick</li> </ul>	Research & GMP grade available	<ul style="list-style-type: none"> <li>• Liquid: 1000 mL</li> </ul>
Harvest™ 293F Expression System (Plus) Kit	Research grade	Kit consists of: <ul style="list-style-type: none"> <li>• 1 x CarpTrans Transfection Reagent (5 mL)</li> <li>• 1 x 293F Hi-Exp Medium (1000 mL)</li> <li>• 1 x 293F Hi-Exp Feed (100 mL)</li> </ul>

# CarpTrans Transfection Reagent

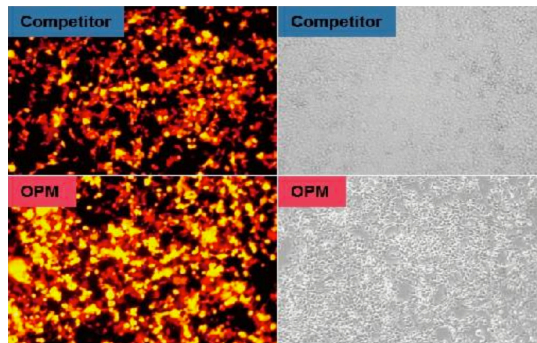
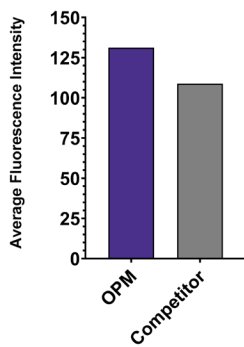
- High transfection efficiency – maximize protein and antibody yields
- Broad compatibility – HEK293, CHO, and other mammalian lines

## Transfection in Suspension Culture (Expi293)



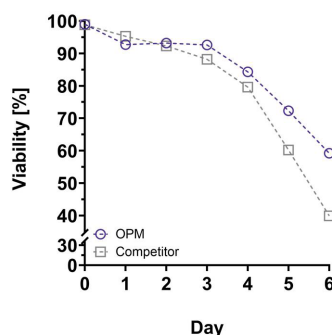
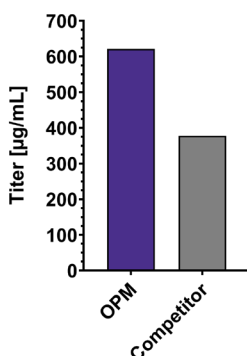
**Figure.** Expi293 cells were cultured to a density of  $3 \times 10^6$  cells/mL and transfected using CarpTrans or a leading competitor transfection reagent. **(Left)** Transfection efficiency was measured at 24 hr and 48 hr post-transfection. **(Right)** Cell viability measurements pre- (day 0) and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

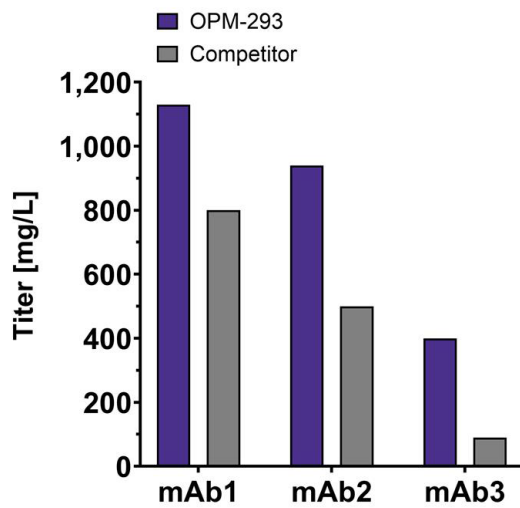


**Figure.** Expi293F cells were cultured to a density of  $3 \times 10^6$  cells/mL and transfected using CarpTrans or the same competitor transfection reagent as above to express a monoclonal antibody (mAb). **(Left)** mAb titer was measured at day 6 post-transfection. **(Right)** Cell viability measurements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

# Basal Media and Feeds for HEK293 Cultures

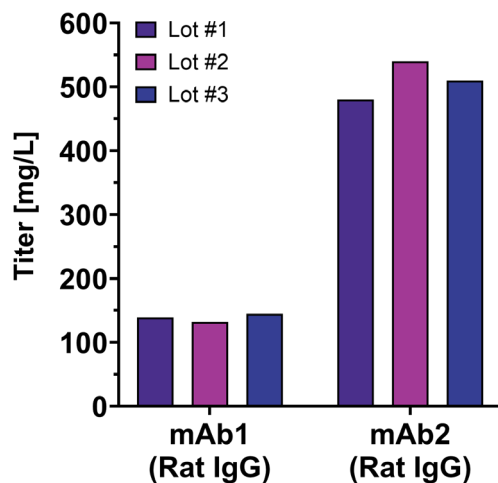
- Smooth transition from discovery to GMP
  - **Research-grade:** 293F Hi-exp Media and Feed
  - **GMP-grade:** OPM-293 CD05 Media and ProFeed
- Flexible packaging in dry powder or liquid formats
- Dual-site manufacturing ensures stable supply:
  - Up to 2000 kg/lot (DPM)
  - Up to 2000 L/lot (liquid)

## 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					
 <b>Secreted Protein</b>		 <b>Intracellular</b>		 <b>Membrane-Bound</b>	
		Single Unit	Complex*	Single Unit*	Complex*
<b>Basal Medium</b>	<ul style="list-style-type: none"> <li>• 293F Hi-exp</li> <li>• OPM-293 CD05</li> </ul>	<ul style="list-style-type: none"> <li>• 293F Hi-exp</li> <li>• OPM-293 CD05</li> </ul>	<ul style="list-style-type: none"> <li>• Corevo 293 Flux</li> <li>• Corevo 293 Deep</li> </ul>	<ul style="list-style-type: none"> <li>• 293F Hi-exp</li> <li>• OPM-293 CD05</li> <li>• Corevo 293 Flux</li> <li>• Corevo 293 Deep</li> </ul>	<ul style="list-style-type: none"> <li>• Corevo 293 Flux</li> <li>• Corevo 293 Deep</li> </ul>
<b>Feed</b>	<ul style="list-style-type: none"> <li>• 293F Hi-exp Feed</li> <li>• OPM-293 ProFeed</li> </ul>				

\*Please inquire for more technical support

**Explore our high-performance cell culture media today. Learn more at [opmbio.com](https://opmbio.com).**