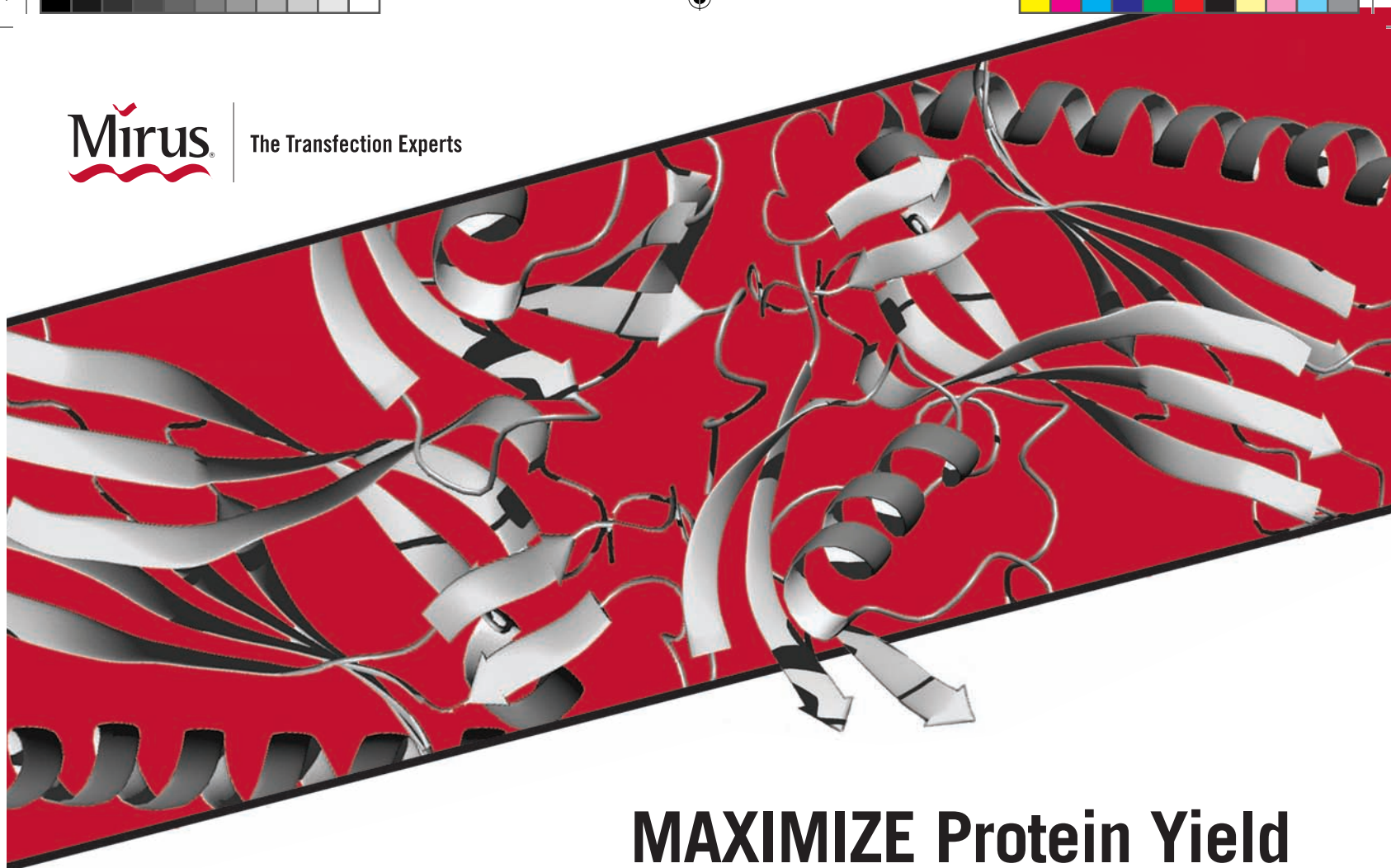




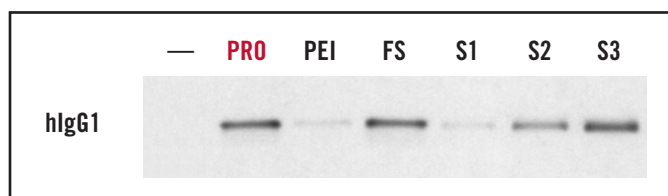
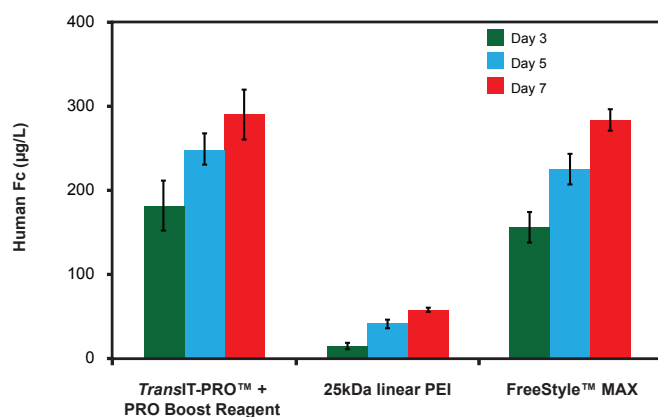
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MAXIMIZE Protein Yield

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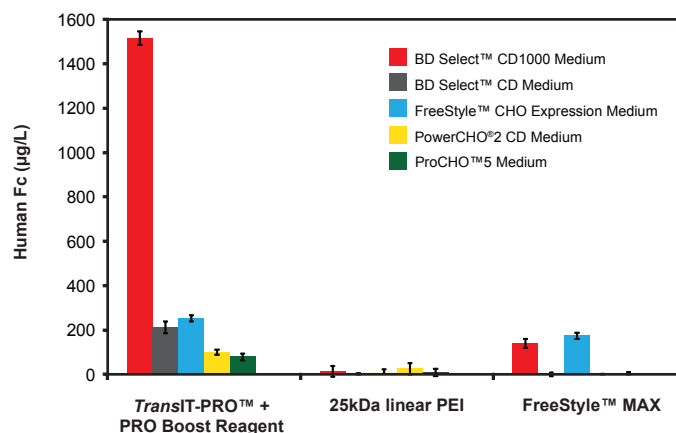
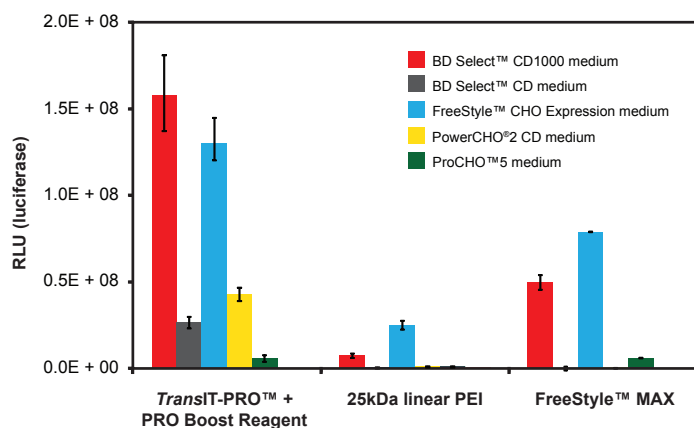
High Performance: A Cost-effective Alternative for Protein Production



Achieve High Antibody Titers Using the *TransIT-PRO*TM Transfection Kit. Human IgG1 was produced by transient transfection using *TransIT-PRO* and PRO Boost Reagent (1:1:1), 25 kDa linear PEI (6:1) or FreeStyleTM MAX (1:1) transfection reagents according to the manufacturers or published protocol (reagent:DNA ratio). Transfections were performed using 1 µg plasmid DNA per milliliter of culture and 0.5×10^6 cells/ml at the time of transfection. FreeStyleTM CHO-S cells were cultured in 20ml of FreeStyleTM CHO Expression medium in 125 ml shake flasks. (A) Day 3, 5 and 7 supernatants were clarified and analyzed using a human IgG-Fc sandwich ELISA. Error bars represent the standard deviation of triplicate technical replicates, 25kDa linear PEI is duplicate technical replicates. (B) Day 7 supernatants were clarified and analyzed by Western blot. An IgG standard was included for quantification estimate (S1= 1.6 mg/L, S2= 3.2 mg/L, S3 = 6.3 mg/L).

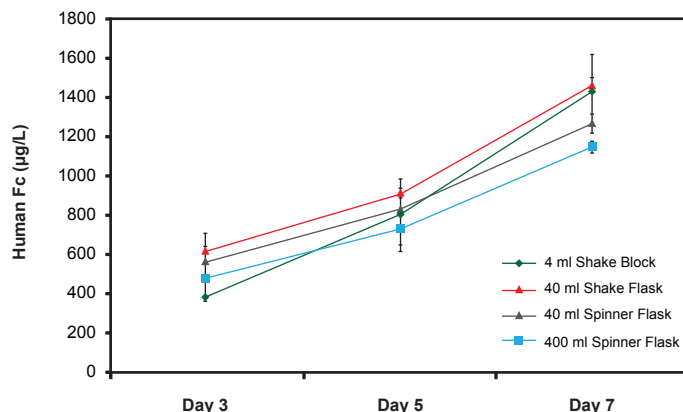
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TransIT-PRO™ Provides High Performance Across Varied Media Formulations. FreeStyle™ CHO-S cells were adapted to five representative growth media including: BD Select™ CD1000 medium (Becton, Dickinson and Company, Franklin Lakes, NJ), BD Select™ CHO medium (Becton, Dickinson and Company, Franklin Lakes, NJ), FreeStyle™ CHO Expression medium (Life Technologies Corporation, Carlsbad, CA), ProCHO™5 medium (Lonza Inc., Allendale, NJ) and PowerCHO®2 CD medium (Lonza Inc., Allendale, NJ). Cells were transfected with a plasmid using the *TransIT-PRO* and PRO Boost Reagent (1:1:1), 25kDa linear PEI (4:1) (Polysciences, Warrington, PA), or FreeStyle™ Max (1:1) (Life Technologies Corporation, Carlsbad, CA) transfection reagents according to the manufacturers or published protocol (reagent:DNA ratio). Transfections were performed in 24-well deep well shaker blocks using 1 µg plasmid DNA per milliliter of culture and 0.5×10^6 cells/ml at the time of transfection. (A) Luciferase expression was assessed 48 hours post-transfection using a conventional luciferase assay. Error bars represent the standard deviation of duplicate wells. (B) Human IgG1 was quantitated from day 5 clarified supernatants and analyzed by a human anti-Fc sandwich ELISA. Error bars represent the standard deviation of triplicate wells.

Scale-up: No Problem



Scaling of Transient Transfection Using *TransIT-PRO™* Transfection Kit is Linear From 4 to 400 Milliliters. Human IgG1 was produced by transient transfection using the *TransIT-PRO™* Transfection Kit and a plasmid encoding a human IgG1 construct. A DNA concentration was 1µg/ml of culture and a ratio of *TransIT-PRO*:PRO Boost Reagent:DNA ratio of 1:0.5:1. Cells were plated at a density of 0.5×10^6 cells/ml at the time of transfection. CHO-S cells were cultured in BD Select™ CD1000 media using 4 ml per well of a 24-well deep well shake block, 40 ml in 125 ml Erlenmeyer shake flask, 40 ml in 125 ml 2 sidearm spinner flask and 400 ml in 500 ml 2 sidearm spinner flask. Day 3, 5 and 7 supernatants were clarified and analyzed by an anti-Fc sandwich ELISA. Error bars represent the standard deviation of triplicate technical replicates.

TransIT-PRO™ Transfection Kit

PRODUCT NO.	SIZE
MIR 5700	1 ml
MIR 5760	10 ml

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