



Are you in control of your protein quality profile?

BD Select™ GlycanMod Pak 100

Protein quality supplements

In the highly competitive biopharmaceutical market, time to market can be one of the deciding factors in your therapeutics' success. BD Select GlycanMod Pak 100 protein quality supplements are uniquely designed to work across multiple cell lines and media providing greater flexibility to achieve the desired profile. By adding these chemically defined protein quality supplements to your existing cell culture process, you are able to quickly modify protein galactosylation.



BD Select GlycanMod Pak 100

Chemically defined protein quality supplements designed to increase monoclonal antibody (mAb) galactosylation

With more routine achievement of mAb production targets and the increasing development of biosimilars, bioproduction has turned its focus toward obtaining consistent, desirable protein quality. Proper glycosylation is essential for protein stability and therapeutic functionality.

BD Select GlycanMod Pak 100 provides multiple options and greater flexibility in choosing the right protein quality supplement for your needs. Uniquely designed to promote galactosylation to achieve a target N-glycan profile in different media formulations and cell expression systems, these protein quality supplements give you more control over your therapeutics' success.

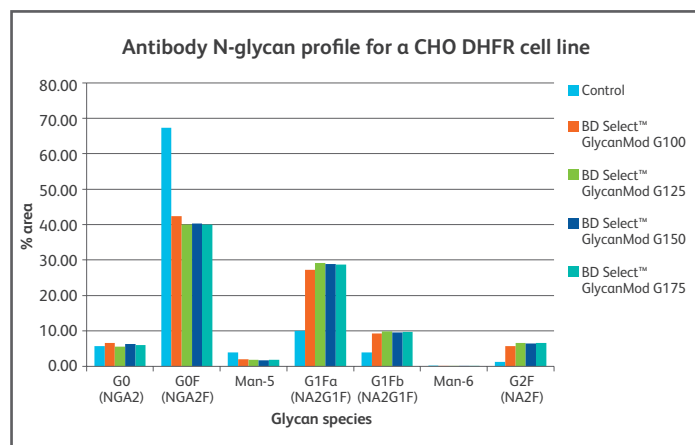
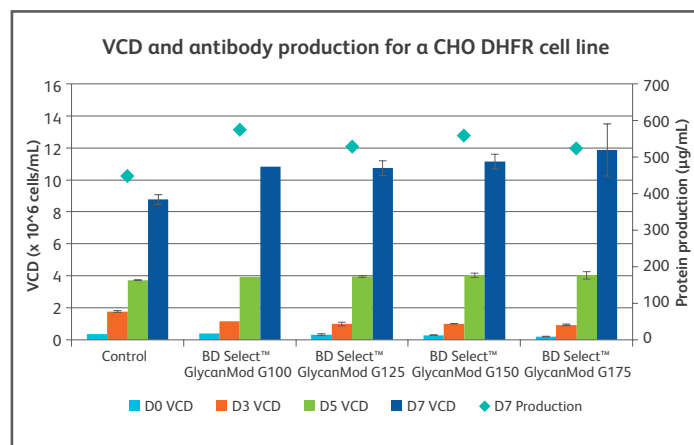
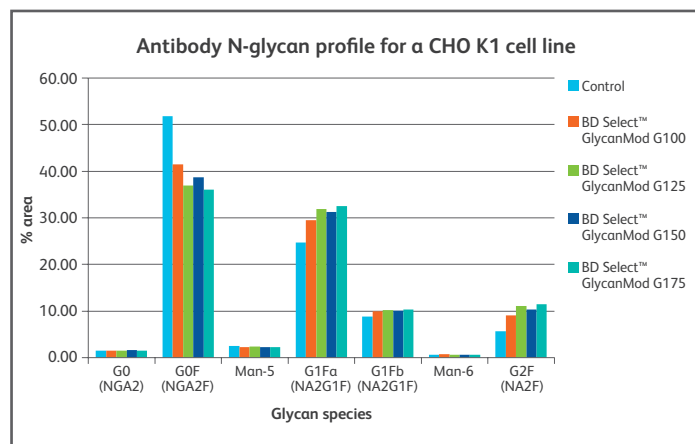
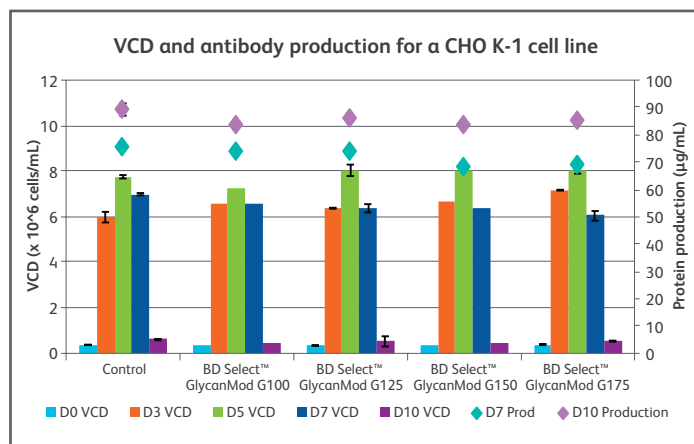
Featured in an easy-to-test pack, BD Select GlycanMod G100, G125, G150 and G175 are titratable and can be added as needed to achieve the desired galactosylation pattern. BD Select GlycanMod Pak 100 offers a solution for your galactosylation needs, helping to get your product to market faster.

Description	Cat. no.
BD Select™ GlycanMod Pak 100	215415
BD Select™ GlycanMod G100, 100 mL Enriched in micronutrients	215416
BD Select™ GlycanMod G125, 100 mL Enriched in carbohydrates and micronutrients	215417
BD Select™ GlycanMod G150, 100 mL Enriched in trace elements	215418
BD Select™ GlycanMod G175, 100 mL Enriched in carbohydrates and trace elements	215419



Increasing galactosylation across different CHO cell lines

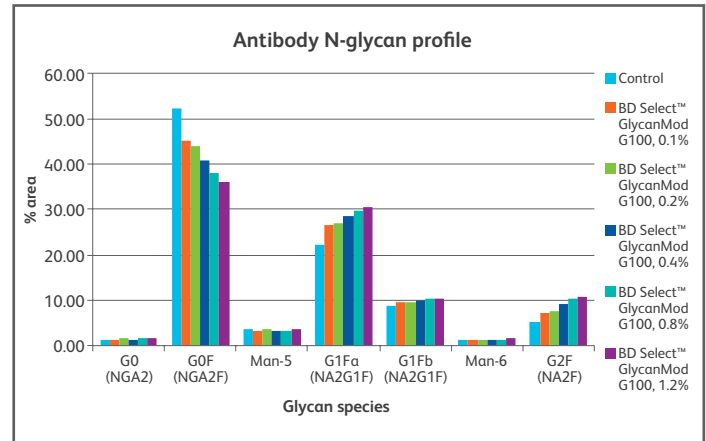
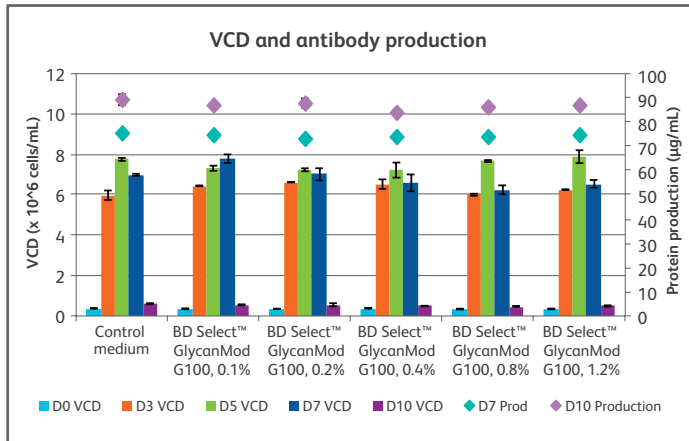
BD Select GlycanMod G100, G125, G150 and G175 were added at 0.4% on day 0 to shake flask batch cultures of a CHO K-1 and a CHO DHFR cell line. Growth and production were measured at multiple time points throughout the culture and N-glycan profiles were analyzed at day 10. Each protein quality supplement increased galactosylation in both cell lines while maintaining viable cell density (VCD) and antibody production.



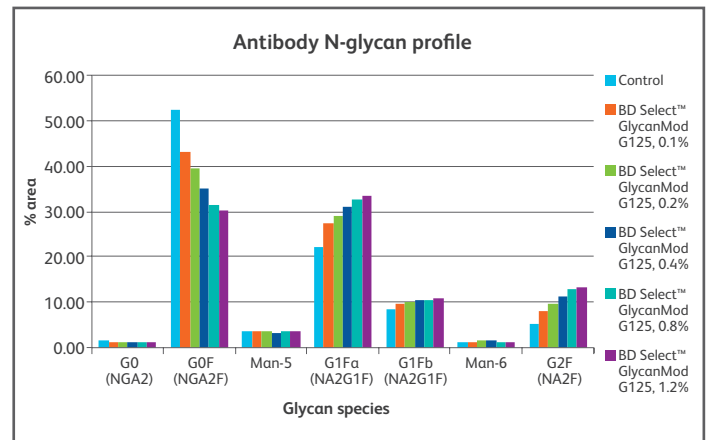
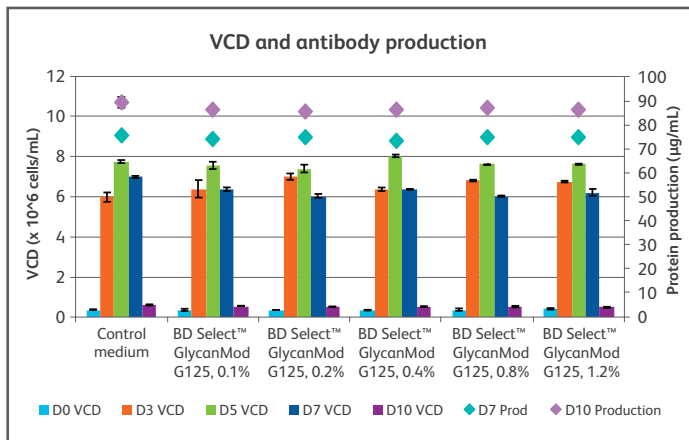
Optimizing the protein quality profile through titration

BD Select GlycanMod Pak 100 protein quality supplements were added to a CHO K1 shake flask batch culture on day 0 in increasing concentrations. Growth and production were measured at multiple time points throughout the culture and N-glycan profiles were analyzed at day 10. Each protein quality supplement produced a concentration dependent increase in galactosylation, while maintaining cell growth and antibody production.

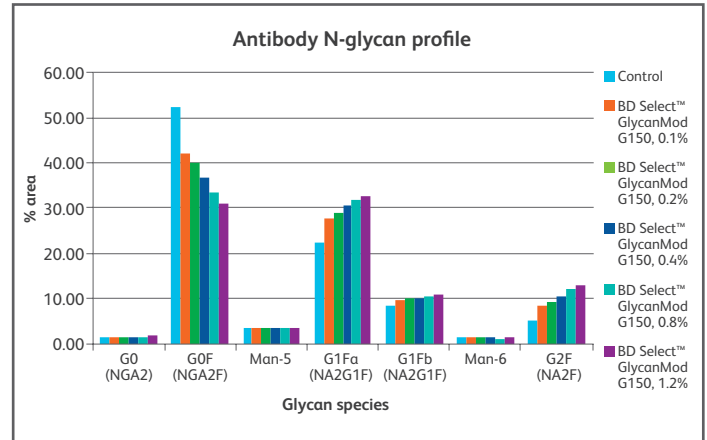
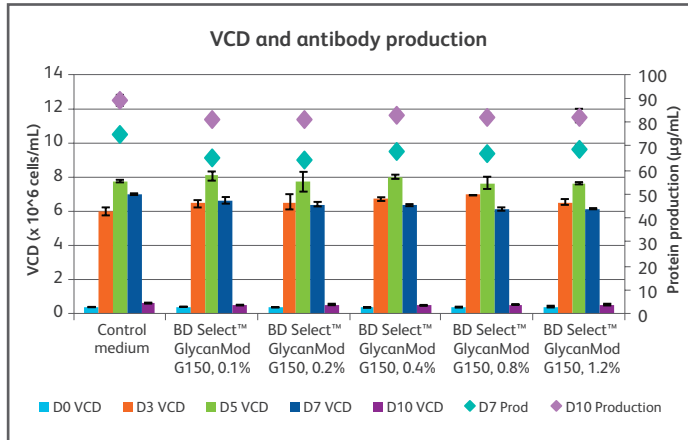
BD Select GlycanMod G100 protein quality supplement



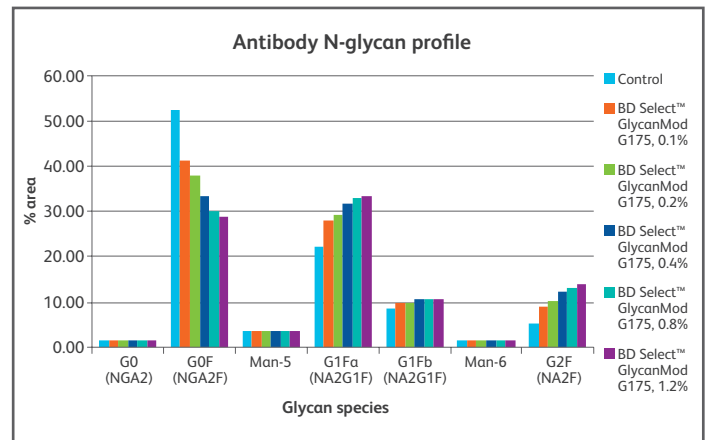
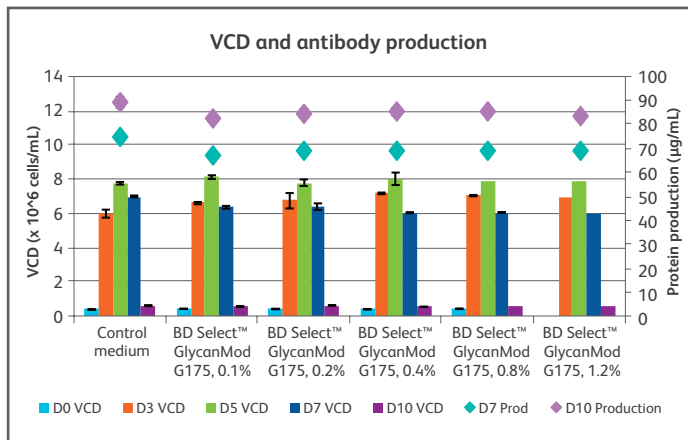
BD Select GlycanMod G125 protein quality supplement



BD Select GlycanMod G150 protein quality supplement



BD Select GlycanMod G175 protein quality supplement



Modifying protein quality profiles across different media

The performance of BD Select GlycanMod Pak 100 protein quality supplements in different chemically defined media was assessed using a CHO DHFR cell line in shake flask cultures. These protein quality supplements were added at 0.4% on days 3 and 5 with antibody production and N-glycan profile measured on day 7.

Figure A illustrates the effectiveness of BD Select GlycanMod Pak 100 protein quality supplements across different media. This provides you with options on how and when to add these protein quality supplements to achieve your desired N-glycan profile.

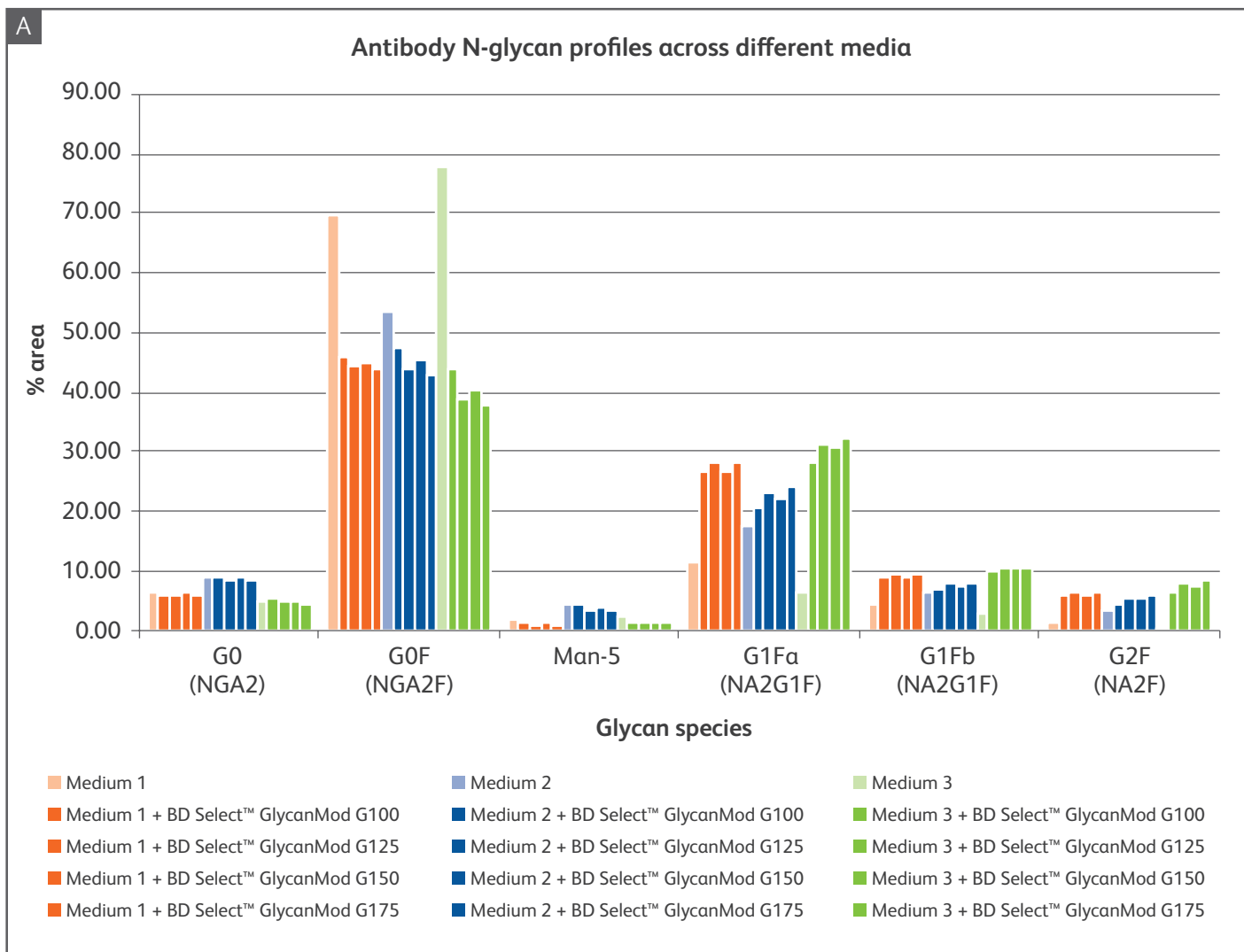
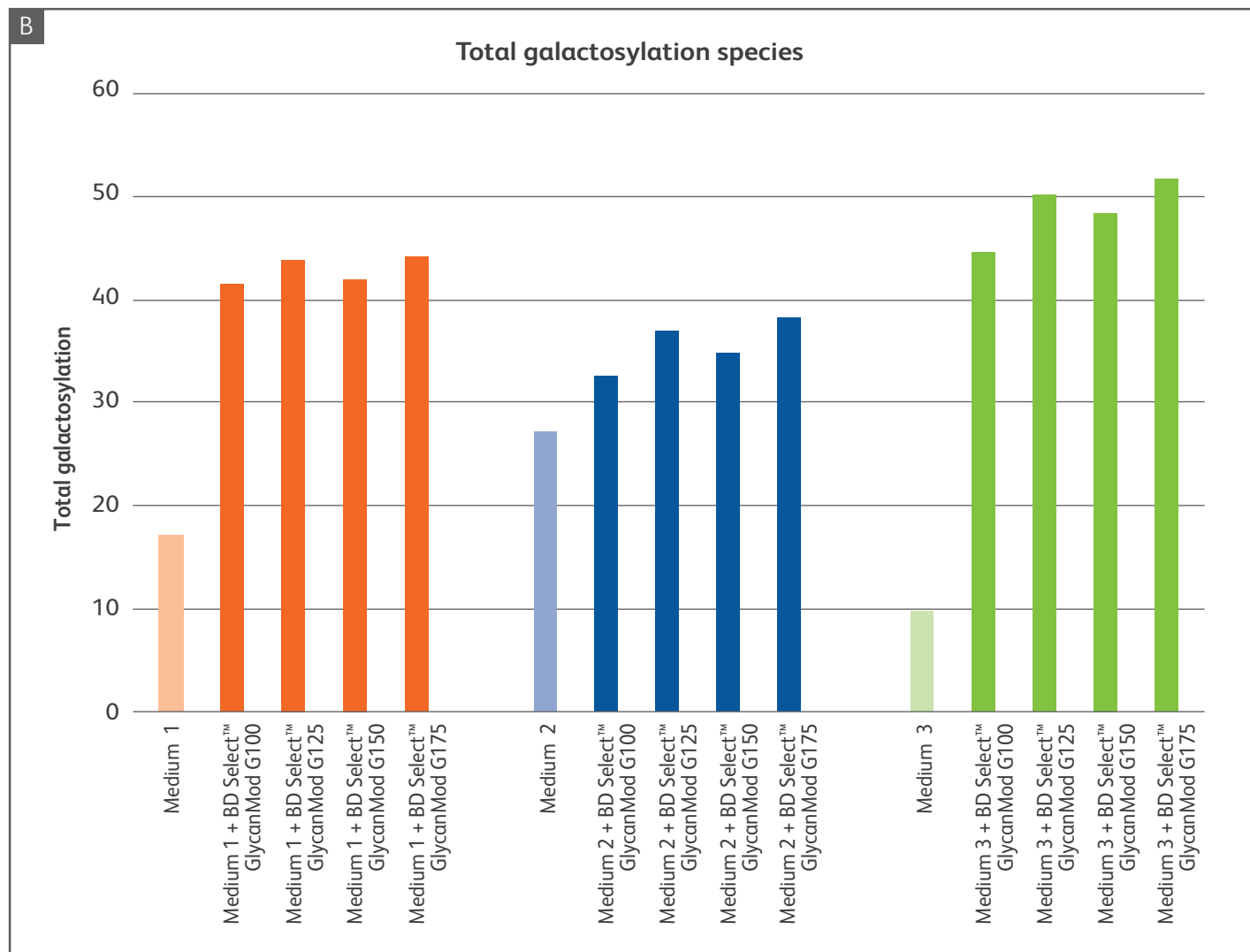


Figure B illustrates the total galactosylation (G1F + G2F) from the N-glycan profile shown in Figure A. Addition of the BD Select GlycanMod Pak 100 protein quality supplements increased total galactosylation to different degrees dependent upon the medium.



Start evaluating

For more information on the BD Select GlycanMod Pak 100, or any of the protein quality supplements included, please contact your local sales associate.

Advanced Bioprocessing, now part of Thermo Fisher Scientific

United States

t: 877.362.2700

mediasolutions@bd.com

bdbiosciences.com/advbio

Europe

t: +32.53.720.844

BDAB_customercare@europe.bd.com

bdbiosciences.com/eu/advbio

Korea

t: 080.340.3800

BDAB_Korea@bd.com

bdbiosciences.com/advbio

India

t: +91 22 33241600

BDAB_India@bd.com

bdbiosciences.com/cellculture/advbio

bdbiosciences.com/advbio

