

# eCHO® Medium Maximize Your Protein Production



## Efficient Protein Production

eCHO® Medium is designed to maximize protein integrity, positively affected by low levels of lactate and late-stage viability. With over 40 years of expertise in media development, Lonza is proud to introduce eCHO® Basal Medium and Feed. The serum-free, chemically defined, hydrolysate-free and non-animal origin (NAO) eCHO® Medium optimizes your cell proliferation and protein production.

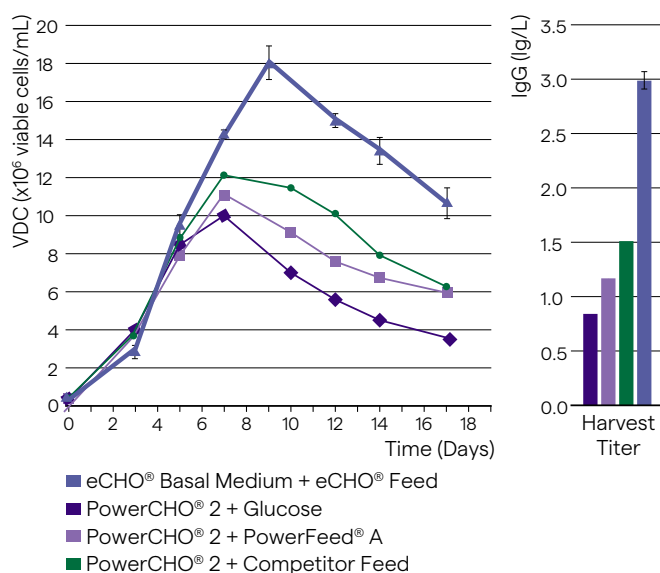
Chinese Hamster Ovary (CHO) cells (e.g. CHO-K1, DG44 and CHO-S) used to produce recombinant proteins, monoclonal antibodies or biosimilar are compatible with eCHO® Medium.

## Easy to Use Medium

eCHO® Medium is available in powder and liquid formats. The powder consists of only one component, resulting in minimal preparation time following simple instructions for reproducible reconstitution, saving valuable time moving from development to manufacturing. Reproducible upscaling is quick and easy. The cost-effective components used in eCHO® Medium make the medium worth implementing in current or future protein production processes. Combining basal medium and feed will increase protein yields.

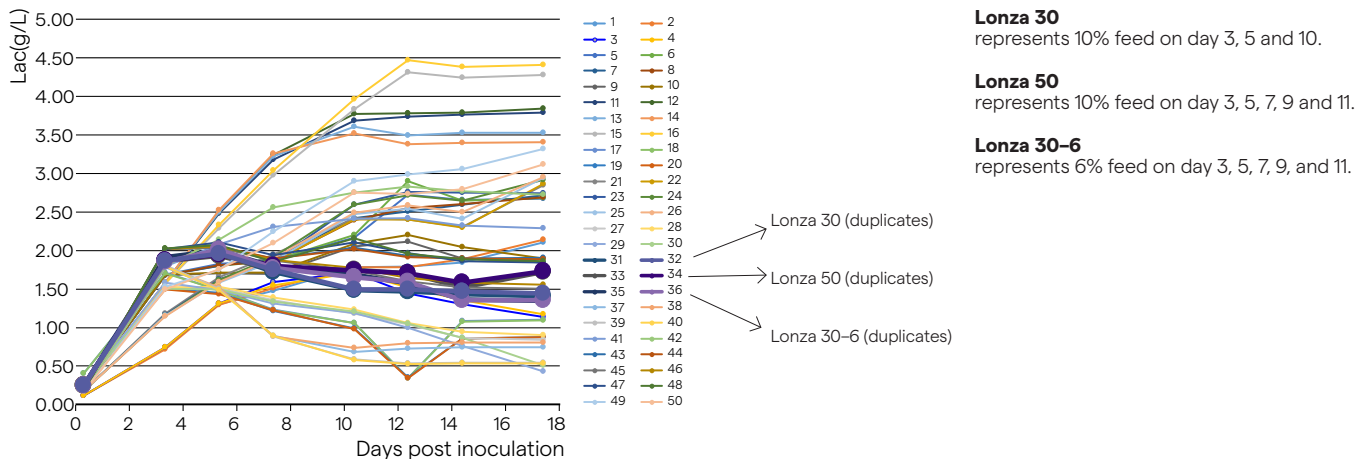
## Consistent Performance

Using eCHO® Basal Medium paired with eCHO® Feed results in a CHO medium showing high and consistent performance. Lonza was able to demonstrate consistent titer levels of  $\pm 3$  g/L of recombinant protein with multiple CHO clones, multiple protein products, multiple lots, and multiple formats in 14-day fed-batch cultures. Titters were 2–3 x higher compared to PowerCHO® 2 (Figure 1).



## Consistent Performance

During protein production in eCHO® Medium low lactate levels are a key contributor to protein integrity and improved post translational modifications. eCHO® Basal Medium and eCHO® Feed show consistent low levels of lactate during protein production (Figure 2).



**Figure 2.**  
Comparison of lactate levels using different commercial CHO media and their feeds.

| Technical Specifications |   |
|--------------------------|---|
| Paired medium and feed   | Associated basal medium and feed, ready to use                        |
| Composition              | Chemically defined, non-animal origin                                 |
| Documents                | Certificate of analysis, MSDS, manual                                 |
| Storage                  | 2 to 8° C, protect from light   |
| Manufactured             | GMP, labelled "For Further Manufacturing"                             |
| Format                   | 1L bottle liquid, powder >10 L  |
| Shelf life               | Liquid minimum >6 months (shelf life study)<br>Powder minimum 2 years |

## eCHO® Media

| Cat. No. US | Cat. No. EU | Description        | Size | Format |
|-------------|-------------|--------------------|------|--------|
| BEBP12-933Q | BEBP12-933Q | eCHO® Basal Medium | 1 L  | Liquid |
| BE15-933D   | BE15-933D   | eCHO® Basal Medium | 10 L | Powder |
| BE15-933F   | BE15-933F   | eCHO® Basal Medium | 50 L | Powder |
| BE15-932D   | BE15-932D   | eCHO® Feed         | 10L  | Powder |
| BE15-932F   | BE15-932F   | eCHO® Feed         | 50 L | Powder |

## Companion Products

| Cat. No. US | Cat. No. EU | Description              | Size   | Format |
|-------------|-------------|--------------------------|--------|--------|
| BEBP17-605E | BEBP17-605E | L-Glutamine (200mM)      | 100 mL | Liquid |
| BEBP17-855E | BEBP17-855E | ProHT Supplement (100x)  | 100 mL | Liquid |
| BP12-769E   | BP12-769E   | ProFreeze® CD, NAO (2x)* | 100 mL | Liquid |

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