

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.

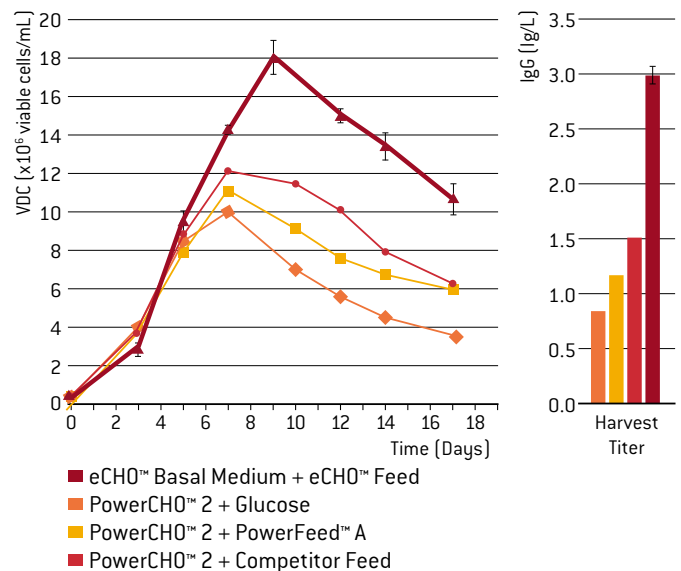
Chinese Hamster Ovary (CHO) cells (e.g. CHO-K1, DG44 and CHO-S) used to produce recombinant proteins, monoclonal antibodies or biosimilar are compatible with eCHO™ Medium.

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 ±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).

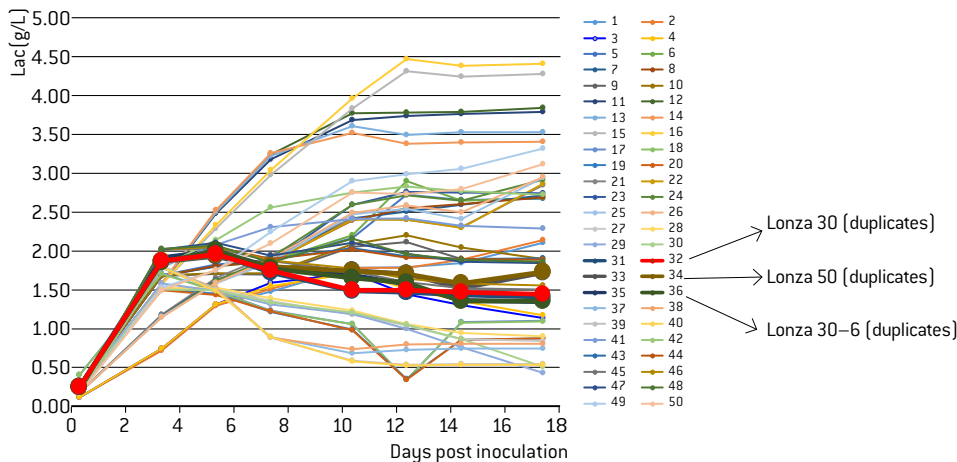


Figure 2
Comparison of lactate levels using different commercial CHO media and their feeds.

Lonza 30
represents 10% feed on day 3, 5 and 10.

Lonza 50
represents 10% feed on day 3, 5, 7, 9 and 11.

Lonza 30-6
represents 6% feed on day 3, 5, 7, 9, and 11.

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	2–8° C, protect from light
Manufactured	GMP, labelled "For Further Manufacturing"
Format	1L bottle liquid, powder >10L
Shelf life	Liquid minimum >6 months (shelf life study) Powder minimum 2 years

eCHO™ Media

Catalog # US	Catalog # EU	Description	Size	Format
BEBP12-933Q	BEBP12-933Q	eCHO™ Basal Medium	1L	Liquid
BE15-933D	BE15-933D	eCHO™ Basal Medium	10L	Powder
BE15-933F	BE15-933F	eCHO™ Basal Medium	50L	Powder
BEBP12-932Q	BEBP12-932Q	eCHO™ Feed	1L	Liquid
BE15-932D	BE15-932D	eCHO™ Feed	10L	Powder
BE15-932F	BE15-932F	eCHO™ Feed	50L	Powder

Companion products

Catalog # US	Catalog # EU	Description	Size	Format
BEBP17-605E	BEBP17-605E	L-Glutamine (200mM)	100mL	Liquid
BEBP17-855E	BEBP17-855E	ProHT Supplement (100x)	100mL	Liquid
BP12-769E	BP12-769E	ProFreeze™ CD, NAO (2x)*	100mL	Liquid

*available by late 2020, currently 12-769E

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CD-TS115 10/19

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