

PowerCHO™ GS Powder Kits

Instructions for powder reconstitution

Section	Description	Page
I	Introduction	1
II	Kit components	1
III	Powder reconstitution	1-2
IV	Storage conditions	2
X	Ordering information	2
XI	Related products	2
XII	Product use statement	2

I. Introduction

PowerCHO™-GS is a chemically defined, non-animal origin, protein-free CHO medium that contains HEPES and Pluronic™ F-68, but no insulin, phenol red, or L-glutamine.

Designed for use in Lonza's proprietary GS Gene Expression System™, PowerCHO™-GS delivers high levels of cell proliferation, protein production, and cell viability. Characterized by its higher yielding cell lines, speed, predictable scale-up, regulatory acceptance and ease of use, the GS System™ leads to a more cost-efficient production of therapeutic proteins.

The GS System™ is the industry standard for the production of therapeutic recombinant proteins and monoclonal antibodies.

II. Kit components

Component name	Component part	Kit part	
		BE15-776D	BE15-776F
Basal Powder	VPW-081D (10 L)	1	-
	VPW-081F (50 L)	-	1
Lipids	BE13-668Z (7 mL)	1	-
	BE13-668C (35 mL)	-	1
Ferric Citrate	BE02-043E	1	1

III. Powder reconstitution

Powder should be reconstituted as follows to obtain 10 or 50 L of liquid PowerCHO™-GS:

1. Select a suitable container as close in size to the final volume as possible. Fill to 90% of the final volume with deionized or distilled water at 20°C, i.e. 9 or 45 L.
2. While gently stirring, add 1 container of VPW-081D or F. Go on mixing until complete dissolution of powder. Please note that Lonza powders dissolve very quickly (20 min max.)
3. Rinse the powder container with a small volume of water, and add to the solution.
4. Complete the medium by adding lipids supplement, ferric citrate, and NaHCO₃ as described in the table below:

	Lipids	Fe Citrate	NaHCO ₃
Part/Size	BE13-668Z or C	BE02-043E	Not Supplied
10 L	5.6 mL	10 mL	21.552 g
50 L	28 mL	50 mL	107.76 g

5. Stop mixing as soon as dissolution is completed. Adjust pH with NaOH to around 7.00. Add water to reach the final volume.
6. Immediately filtrate on a 0.2 µm absolute filter into a sterile container. We recommend using a Sartopure 0.65 µm prefilter or equivalent connected to a Sartopure 0.2 µm filter or equivalent. Size of (pre)filter must be adapted according to batch size. Store medium at 2 - 8°C in the dark.

NOTE: Lonza does not recommend using only part of the powder containers. Nevertheless, if this is required, VPW-081 powders should be used at 29.146 g/L and lipids, Fe Citrate, and NaHCO₃ adapted for 1 Liter.

IV. Storage conditions

VPW-081 powders should be stored at 2 - 8°C in dry conditions. Lipids BE13-668 should be stored at 2 - 8°C. Ferric citrate should be stored at 15 - 30°C.

V. Ordering information

Cat. no.	Product	Size
BE15-776D	PowerCHO™ GS Kit Contains: basal powder, lipids and ferric citrate	10 L
BE15-776F	PowerCHO™ GS Kit Contains: basal powder, lipids and ferric citrate	50 L

VI. Related products

Cat. no.	Product	Size
BEBP17-605E	L-Glutamine 200 mM Solution	100 mL
15-613I	Sodium Bicarbonate Powder	500 g
17-613E* BE17-613E (EU)*,**	Sodium Bicarbonate 7.5% Solution	100 mL
BEBP17-855E	ProHT Supplement 100x	100 mL
BEBP12-769E	ProFreeze NAO 2x	100 mL
BE12-776Q	PowerCHO™-GS Liquid	1 L

* product is labeled Research Use Only (RUO)

** only sold in Europe

VII. Product use statement

These products are GMP produced and intended for further manufacturing use only. They are not intended for direct therapeutic use in humans.

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