

ProCHO™ 5 Powder Kit

Instructions for use

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I. Introduction

ProCHO™5 is a non-animal origin medium to support growth of CHO cells. The protein-free formulation significantly simplifies downstream processes. ProCHO™ 5 powder kit consists of 3 parts, allowing reconstitution in water. The powder kit contains basal powder, human recombinant insulin at 5 g/L and a lipids supplement. HEPES, Pluronic® acid and Hy-Soy® are included in the powder.

For answers to frequently asked questions and citations regarding these products, please visit our knowledge center: <https://knowledge.lonza.com>

II. Unpacking and storage instructions

1. Check all containers for leakage or breakage.
2. Store basal powder at 2 - 8°C in dry conditions.
3. Lipids should be stored at 2 - 8°C.
4. Insulin should be stored frozen according to label instructions.

III. Preparation of media

1. Select a suitable container as close in size to the final volume as possible. Fill it with 90 % of the final volume with deionized or distilled water.
2. While gently stirring, add the powdered medium. Mix until completely dissolved.

NOTE: The powder should dissolve within 20 minutes.

3. Rinse the original powder container with a small volume of water, and add to the solution.
4. Complete the medium by adding insulin, lipids, L-glutamine and NaHCO₃ as described in the following tables.

ProCHO®-5 Powdered Media

	Part #	BE15-766D 10 L	BE15-766F 50 L	BE15-766L 500 L
Basal Powder	WPW-045D	1	-	-
	WPW-045F	-	1	-
	WPW-045L	-	-	1
Insulin 5 mg/mL	BE02-033E20 (20 mL)	1	-	-
	02-033E BE02-033E (100 mL)	-	1	-
	BE02-033Q (1000 mL)	-	-	1
Lipids	BE13-668Z (7 mL)	1	-	-
	BE13-668C (35 mL)	-	1	-
	BE13-668F350 (350 mL)	-	-	1

NOTE: L-glutamine and sodium bicarbonate must be purchased separately.

L-Glutamine and NaHCO₃ Additives

Volume	L-Glutamine	NaHCO ₃
10 L	5.848 g	21 g
50L	29.24 g	105 g
500L	292.40 g	1050 g

5. Stop mixing as soon as dissolution is completed. Adjust pH with NaOH to approximately 7.00. Add water to reach the final volume. Check osmolality (must be between 340-360 for ProCHO™ 5).
6. Immediately filtrate on 0.22 µm (or smaller) absolute filter into a sterile container. Store liquid medium at 2 - 8°C in the dark

NOTE: We do not recommend using only a partial volume of

the powder containers. If this is absolutely necessary, reconstitute the WPW-045 powder at 27.63 g/L, and adapt the volume of the insulin and lipids kit components appropriately.

IV. Ordering information

Cat. no.	Product	Size
BE15-766D	ProCHO™ 5 powder kit w/o phenol red or nucleosides (HT)	10 L
BE15-766F	ProCHO™ 5 powder kit w/o phenol red or nucleosides (HT)	50L
BE15-766L	ProCHO™ 5 powder kit w/o phenol red or nucleosides (HT)	500L

V. Related products

Cat. No.	Product	Size
15-613I	Sodium Bicarbonate Powder	500 g
17-613E* BE17-613E*	Sodium Bicarbonate 7.5% Solution	100 mL
BEBP17-855E	ProHT™ Supplement (100x)	100 mL
BP12-769E	ProFreeze™ NAO 2x	100 mL
BE17-605E/U1*	UltraGlutamine™ I 200 mM	100 mL
17-605E* BE17-605E* BEBP17-605E	L-Glutamine 200 mM solution	100 mL
BEBP12-029Q	ProCHO™ 4 Protein-Free Medium with phenol red and Pluronic®, w/o L-gln, hypoxanthine and thymidine	1 L
BP04-919Q	ProCHO™ 4 Protein-Free Medium with Pluronic®, w/o L-gln, phenol red, hypoxanthine and thymidine	1 L
BP12-766Q BELN12-766Q (EU only)	ProCHO™ 5 Protein-Free Medium with Pluronic®, w/o L-gln, phenol red, hypoxanthine and thymidine	1 L
BE12-766P10**	ProCHO™ 5 Protein-Free Medium with Pluronic®, w/o L-gln, phenol red, hypoxanthine and thymidine	10 L bag
BE12-766P20**	ProCHO™ 5 Protein-Free Medium with Pluronic®, w/o L-gln, phenol red, hypoxanthine and thymidine	20 L bag

**These items are MTO with a minimum of 5 bags per order

GMP PRODUCTS ARE INTENDED FOR RESEARCH OR FOR FURTHER MANUFACTURING USE ONLY. This product is not intended for direct therapeutic use in humans.

***THESE PRODUCTS ARE FOR RESEARCH USE ONLY.** Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or in vivo diagnostic procedures.

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Product use statements