

## **CELLiST™ BASAL Medium (Model No. BASAL CHO MX)**

Name	Model number	Packaging	Contents
CELLiST™ BASAL Medium	BASAL CHO MX	1 L Aluminum Pouch	23.0 g

### **Properties:**

- Chemically-defined, animal origin-free, with no proteins or growth factors added.
- Does NOT contain hydrolysates, extracts or other undefined components.
- Does NOT contain proteins such as growth factors.
- Does NOT contain thymidine or hypoxanthine.
- Does NOT contain L-glutamine sources.
- Does NOT contain sodium bicarbonate.
- Contains 6.2 g/L Glucose.

### **Storage conditions:**

Before liquid preparation, store powder media in dark, refrigerated environment (2–8°C), away from high humidity. After liquid preparation, store in dark, refrigerated environment (2–8°C).

### **Instruction for preparation of liquid medium:**

Table 1: Various parameters for preparation of 1 L of basal medium

Powder weight	NaHCO <sub>3</sub> amount to be added	pH*	Osmotic pressure*	Specific gravity (Room temperature)
23.0 g	2.1 g	6.8–7.4	266–316 mOsm/kg	1.01

1. Prepare a suitable container and stir bar (magnetic bar). When preparing on a weight basis, measure the weight of the container and the stir bar.
2. Fill the container with about 90% volume (900 mL) of cell culture-grade water (room temperature).
3. The total amount of this pouch (23.0 g) should be added to the container. Place a small amount of cell culture-grade water in the pouch to wash the remaining product into the container.
4. Add 2.1 g of Sodium Bicarbonate.
5. Mix using magnetic stirrer for 20 minutes (until all powder is dissolved).
6. Add cell culture-grade water to final volume of 1 L and mix the media for 10 minutes. Volume adjustments can also be done by weighing (see table above).
7. Check pH to ensure a proper range of 6.8–7.4. If out of range, adjust pH using HCl or NaOH solutions.
8. Filter the medium in a clean bench, using a membrane filter with pore size of 0.2 to 0.22 µm in diameter.
9. Store in a refrigerated (2–8°C), dark environment until use.
10. Right before use, add L-glutamine or AminoStable™ to the solution (2–6 mM final concentration is recommended). If required, add growth factors such as insulin or IGF-I.

### **Use:**

- This product is a cell culture medium used for research applications. Do not use it for any other purpose.
- For use in manufacturing, and for any other inquiries, please contact the following: