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CELLiST | Solution Center

CELLiST™ BASAL Medium (Model No. BASAL3)

Name	Model number	Packaging	Contents
CELLiST™ BASAL Medium	BASAL3	1 L Aluminum Pouch	27.0 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 or poloxamer.
- Contains 10 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	Poloxamer 188	$NaHCO_3$ amount to be added	Weight of water to be added	pH*	Osmotic pressure*	Total solution weight	Specific gravity (Room temperature)
27.0 g	1.0 g	1.8 g	986 mL (986 g)	6.8–7.2	310-330 mOsm/kg	1010 g	1.01

*Reference value

1. Prepare a suitable container and stir bar (magnetic 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 (27.0 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 1 g of Poloxamer 188 (Pluronic F-68) and 1.8 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.
7. Check pH to ensure a proper range of 6.8-7.2. If out of range, adjust pH using HCl or NaOH solutions.
8. Filter the medium in a biosafety cabinet, 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:

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