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CELLiST | Solution Center

CELLiST™ AAV Production Supplement 1

Product Type	Product Name	Packaging	Contents
Supplement	CELLiST™ AAV Production Supplement 1	0.2 L Aluminum Pouch	24.0 g

Storage conditions:

Please store the powdered supplement before liquid preparation in a refrigerator (2−8℃) in a dark place, avoiding high humidity.
After preparing the liquid, store it in a refrigerator (2−8℃) in a dark place and use it within one month.

Instruction for preparation of liquid supplement;

Table 1: Various parameters for preparation of 0.2 L of supplement:

Powder weight	8N NaOH solution to be added	Total added water	pH*	Osmotic pressure* (5-fold dilution)	Total solution weight	Specific gravity (Room temperature)
24.0 g	2.0 mL (2.66 g)	181 mL (181 g)	6.6–7.0	205–225 mOsm/kg	208 g	1.04

*Reference value

1. Prepare a suitable container and stir bar, ideally with a capacity 2–3 times the final volume. If preparing by weight, measure the weights of both the container and stir bar.
2. Fill the container with about 70% volume (140 mL) of cell culture-grade water (room temperature).
3. Add the entire contents of the pouch (24.0 g) to the container, rinsing any residue with a small amount of cell culture grade water.
   Dissolve the product promptly after opening to prevent moisture absorption.
4. Add cell culture grade water (room temperature) until the volume reaches about 90–95% of the final volume.
5. Stir well for about 30 minutes, adjusting the stirring speed so that the bottom of the whirlpool reaches the stir bar. Avoid excessive stirring to prevent splashing.
6. Refer to Table 1 and add 8N NaOH solution. If you add a different amount of glucose than indicated in Table 1, add 8N NaOH solution while checking that the pH is between 6.6 and 7.0.
7. Stir well for at least 30 minutes until completely dissolved, adjusting the stirring speed so that the bottom of the whirlpool reaches the stir bar. Avoid excessive stirring to prevent splashing.
8. Confirm that the pH is between 6.6 and 7.0.
   If the pH is < 6.6, adjust it to between 6.6 and 7.0 using 8N NaOH solution.
   If the pH is > 7.0, dissolution may be insufficient, so extend the stirring time.
9. Adjust the final volume to 200 mL with cell culture grade water and stir for about 15 minutes until uniform. Alternatively, adjust by weight according to Table 1.
10. Check the pH and osmolality. Measure osmolality after 5-fold dilution.
11. Filter the supplement under aseptic conditions using a filter with a pore size of 0.20–0.22 µm.
12. Store in a refrigerator (2–8°C) in a dark place until use.

Use;

- This product is 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:

Recommended supplement addition:

- Please add 5-7.5% of this supplement 24hr after transfection according to the process
  *It is recommended to add 7.5% to cell culture 24hr after transfection.

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