

User Manual

OriCell™ Animal Protein-free Dissociation Solution

Catalog No. APFD-10001



Introduction

OriCell™ Animal Protein-free Dissociation Solution is a chemically defined, animal-component-free formula designed to minimize cellular stress and prevent unwanted immune interference. Compatible with both serum-supplemented and serum-free culture systems, this solution offers a safe and convenient alternative to trypsin. Notably, its mild activity eliminates the need for a traditional neutralization (termination) step, streamlining the dissociation workflow.

OriCell™ Animal Protein-free Dissociation Solution (pH 7.0–7.2) is supplemented with 1 mM EDTA to enhance dissociation efficiency.

Note: This product is intended for research use only and is not for diagnostic, therapeutic, clinical, household, or any other applications.

When citing our products in academic publications, please use the following format: “OriCell™ [Product Name] + [Catalog Number], from Cyagen Biosciences.”

Product Advantages

1. Animal-component-free. Formulated without exogenous animal proteins to significantly minimize cellular stress and prevent unwanted immune interference, ensuring cleaner downstream results.
2. Direct add, no rinsing required. Simply add this solution directly to the culture without the need for PBS washes, saving critical time and protecting sensitive cells from mechanical stress.
3. No neutralization required. Its ultra-mild activity eliminates the need for a traditional termination or neutralization step, streamlining your dissociation protocol.
4. Superior lot-to-lot consistency. A highly stable, chemically defined formulation that guarantees minimal batch-to-batch variability for reliable and reproducible experimental data.

Product Information

Product Name	OriCell™ Animal Protein-free Dissociation Solution
Catalog Number	APFD-10001
Size	100 mL
Storage	2–8 °C (1 month) or -20 °C (2 years)

QC

- Pass the detection of bacteria, fungi, mycoplasma and endotoxins.
- Pass the detection of osmotic pressure and pH.
- Pass the detection of product quality.

Please reference "COA" for details.

Product Stability and Storage Conditions

1. This solution must be stored away from light.
2. The product can be stored at 2 – 8 °C for up to one month, or at -20 °C for up to two years.
3. The shelf life may be extended if the container remains properly sealed and consistent storage conditions are maintained without frequent temperature fluctuations.
4. Use the product before the expiration date. Expired reagents may significantly compromise experimental results.

Instructions for Use

1. Pre-warm the solution (Cat. No.: APFD-10001) to 37 °C before use.
2. Aspirate the original culture medium from the vessel.
3. Add the pre-warmed dissociation solution (approximately 1 mL for a T25 flask, or 2 mL for a T75 flask). Gently rock the flask to ensure complete coverage of the culture surface.
4. Incubate the solution until approximately 70% – 80% of the cells are observed to be rounded under the microscope. Gently tap the outside wall of the vessel to facilitate cell detachment.

Note: Avoid over-digestion and premature pipetting. Do not pipette cells during the early stages of dissociation, as this may lead to cell clumping.

5. Once significant cell detachment is observed, transfer the cell suspension to a 15 mL centrifuge tube. Add pre-warmed complete medium (37 °C) to the flask (approximately 3 mL for a T25 flask, or 6 mL for a T75 flask).
6. Gently pipette the medium up and down against the culture surface (typically 5 – 6 times) to ensure all cells are completely detached. Avoid vigorous pipetting and air bubbles.
7. Transfer the cell suspension to the 15 mL centrifuge tube from step 5.
8. Centrifuge at 250 x g for 5 minutes.
9. Carefully aspirate and discard the supernatant without disturbing the cell pellet.
10. Resuspend the cell pellet in 2 mL of complete medium.
11. Seed the cells at an appropriate density into the culture vessel and add the required volume of complete medium.
12. Incubate the cells in a CO₂ incubator at 37 °C, 5% CO₂, and saturated humidity.

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