

AQUATRYP™

Gentle Enzymatic Cell Detachment Reagent

AquaTryp™ is a ready-to-use sterile cell detachment solution enriched from a non-mammalian, non-bacterial aquatic source. Serving as a direct replacement for porcine pancreatic trypsin, AQUATRYP™ is the superior choice for gentle cell types.

Mode of action:

AQUATRYP™ retains the advantages of trypsin whilst eliminating the risk of porcine viral transfer. Our careful formulation ensures optimal cell detachment performance while limiting undesired cell surface protein lysis. Comprised of a proprietary enzyme preparation with trypsin and collagenolytic activities, AQUATRYP™ is purified from a non-mammalian, non-bacterial cold-water adapted aquatic source. AQUATRYP™ has demonstrated efficacy in detaching a variety of adherent cell types from tissue culture flasks and dishes. Our formulation ensures the optimal survival and viability.

Applications

AQUATRYP™ can be directly incorporated into most routine cell culturing applications:

- Cell Detachment
- Cell Dissociation
- Antigen-Retrieval for Immunohistochemistry (IHC)

Benefits

- Non-mammalian, Non-bacterial, Non-Viral
- Efficiently detach a wide variety of adherent cells
- Maintain high cell viability
- Directly replace porcine Trypsin in standard protocols

Product Information

AQUATRYP™ is shipped frozen as a 1x ready-to-use solution under temperature-controlled conditions and should arrive completely frozen. Upon receipt, we recommend long-term storage at -20°C.

- If immediate use is required, allow to thaw and aliquot into appropriate volumes. Store working stock at 2-8°C.
- Once thawed, AQUATRYP™ is stable at 4°C for one month.
- Cell detachment performance is retained at > 75% after 2 freeze-thaw cycles.

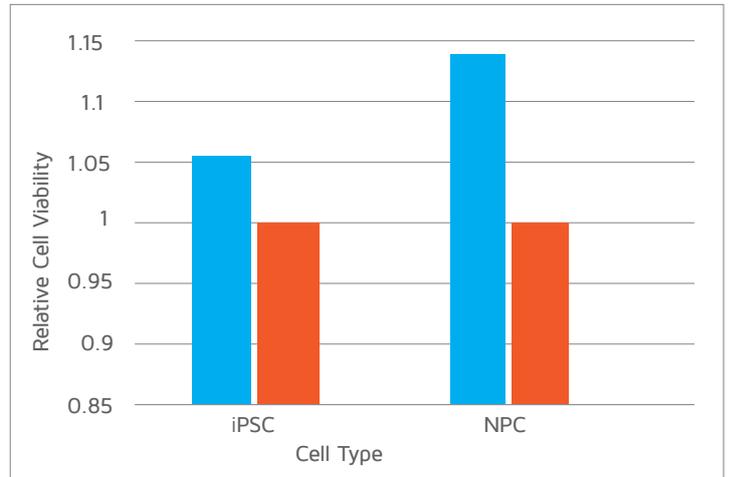
AQUATRYP™'s constituent cold-water adapted enzymes are most stable at temperatures below 25°C. Heating AQUATRYP™ above room temperatures for extended durations measurably reduces enzymatic activity.

Format

- 100ml sterile solution
- 500ml sterile solution

Formulation

1x AQUATRYP™ enzyme mixture in DPBS (138mM NaCl, 2.7mM KCl, 7.2mM Na₂HPO₄, 1.3mM KH₂HPO₄) with 0.008mM Phenol Red, 0.5mM EDTA and 5.6mM D-(+)-Glucose.



■ AQUATRYP™ ■ Crustacean derived Solution

AQUATRYP™ outperforms a crustacean-derived enzymatic cell detachment solution; as measured by relative post-detachment cell viability of iPSC, NPC, U2OS, and PC12 cell types. Our proprietary formulation is effective yet gentle, making it the superior choice for sensitive cell types.

Analysis	Specifications
Appearance	Pink Orange, clear @5±2°C Yellow @20±5°C
pH	7.0 - 8.0
Sterility	Pass
Cell Detachment Activity	Pass
Endotoxins	<1 EU/mL

Sterility : USP (Current edition)

Cell Detachment : Activity: CHO cell line

Endotoxins test : KCA method (USP Current edition)

Quality Standards

Quality is assured by our per-batch testing of sterility, endotoxins, pH, and cell detachment performance.

Storage

- Long-term at -20°C
- Stable for 1 month at 4°C



DO NOT PRE-WARM AT 37°C *

AQUATRYP™

Gentle Enzymatic Cell Detachment Reagent

AquaTryp™ is a ready-to-use sterile cell detachment solution enriched from a non-mammalian, non-bacterial aquatic source. Serving as a direct replacement for porcine pancreatic trypsin, AQUATRYP™ is the superior choice for gentle cell types.

Product Description

AQUATRYP™ is gentle, ensuring the optimal survival and viability of your precious cells. AQUATRYP™ has demonstrated efficacy in detaching a variety of adherent cell types from tissue culture flasks and dishes. Our formulation ensures the optimal survival and viability of sensitive cell types. AQUATRYP™ is ready-to-use, conveniently prepared with phenol red pH indicator and EDTA. AQUATRYP™ is backed by our quality programme, ensuring efficacy and safety for your cell culture applications.

Applications

AQUATRYP™ can be directly incorporated into most routine cell culturing applications:

- Cell Detachment
- Cell Dissociation
- Antigen-Retrieval for Immunohistochemistry (IHC)

Benefits

- Gentle, effective cell detachment
- Suitable for sensitive cell-types
- No risk of mammalian virus origin
- Directly replace porcine Trypsin in standard protocols

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Usage

- Allow AQUATRYP™ to thaw at 2-8°C or RT, and immediately proceed to step 2;
- Remove media from culture vessel and gently wash cells with sterile PBS;
- Add AquaTryp™ directly to culture vessel at a volume that entirely covers the cell layer. We recommend 3ml per T75 flask or 100mm dish;
- Incubate at 37°C for 3 minutes, RT for 5 – 10 mins, or until cells are visibly detached. Detachment of strongly attached cells can be aided by firmly tapping flask or plate against hand or surface;
- Resuspend cells in growth medium, count cells as required, and passage as usual;

Note: Optimal cell detachment conditions should be determined empirically per cell type by the user. AQUATRYP™'s constituent cold-water adapted enzymes are most stable at temperatures below 25°C. Heating AQUATRYP™ above room temperatures for extended durations measurably reduces enzymatic activity.



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