

USER MANUAL

Product: DEATTACHMENT

Components: EDTA, NaCl, KCl, Na₂HPO₄, K₂HPO₄, Recombinant protease

Reference number: 120 (100 mL bottle), 121 (500 mL bottle), 411 (100 mL bottle).

Size: 100 mL bottle, 500 mL bottle.

Intended Use:

For research or manufacturing purposes only.

Overview Product:

Deattachment is a solution used to dissociate loosely adherent cells in cell cultures without causing cell damage and the aging ensuing trypsinization.

The solution has a low endotoxin level (≤ 1.0 EU/mL), is free from Mycoplasma contamination, meets the sterility criteria (0 CFU), has a pH range of 6.5 – 7.5, and an osmotic pressure of 286 - 356 (mOsm/kg).

The solution does not contain trypsin and animal-derived proteins.

Known Applications:

Deattachment has been evaluated on mesenchymal stem cells, fibroblasts, keratinocytes, neural stem cells, and cancer cell lines MCF-7 and HepG2, demonstrating effective dissociation of adherent cells into single cell suspensions.

Reconstitution, Dilution, and Mixing:

The product is supplied in a 1X form, requiring no further dilution or addition of any components prior to usage.

Materials and Reagents Required but Not Provided:

Not applicable

Handling and Storage:

Storage temperature: -20°C - 8°C.

Expiration date: best before 18 months from manufacture date.

Instructions for Use:

1. Warm the Deattachment solution before use. It is recommended to aliquot the solution into a sterile container and incubate it in a heat block or a water bath at 37°C.
2. Inspect the cell cultures using a microscope.
3. Remove the old culture medium from the cell cultures.
4. Gently wash the cells by adding the Washing Buffer. Then, remove the washing solution.
5. Add an appropriate amount of Deattachment into the culture vessels. Gently swirl to evenly coat the surface of the cell cultures with the Deattachment solution.
6. Incubate the culture vessels in a 37°C incubator for 1-5 minutes.
7. Observe the cells under a microscope (spherical single cell suspensions should be achieved at this point).
8. Transfer the cell suspension into centrifuge tubes. Centrifuge at 1500 RPM for 5 minutes.
9. Remove the supernatant and resuspend the cell pellet in an appropriate solution for the intended purpose.

Precautions:

Do not use the product if the packaging is damaged or cracked, or if the solution appears turbid.









The solution effectively delivers efficacious single-cell detachment of cells cultured in serum-free media, without the use of Fetal Bovine Serum or similar substitutes.

First Aid Measure:

Not applicable

Hazards Identification

The symbols present on the kit are explained below

			
Use By:	Batch code	Keep away from light	Catalog number
			
Temperature Limitation	Consult instructions for use	Caution, consult accompanying documents	Sterilized using aseptic processing techniques

Related-products

Product Name	Reference Number
Trypsin/EDTA 0,25% 100 mL 500 mL	 431 430
Trypsinizer 100 mL 500 mL	 126, 412 127
MSCCult I 500 mL	 108, 408
MSCCult II 500 mL	 296, 409
ADSCCult I 500 mL	 117
ADSCCult II 500 mL	 294
Washing Buffer 100 mL 500 mL	 149 150
ThawBest 100 mL 500 mL	 142 143

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