

Regenix 2D coating protocol



Regenix is composed of various extracellular matrix proteins derived from native tissues. Provided in a pre-gel solution form, it can be utilized not only for 2D cell culture but also for a wide range of tissue engineering applications. The pre-gel solution can also be easily used to coat various types of cell culture plates, offering a simple yet effective method for enhancing cell attachment. This versatility allows for the creation of an optimized environment for cell growth and regeneration across various biomedical fields.

Storage Instructions

- ⊗ Avoid storing Regenix on freezer doors or in frequently opened freezers.
- ⊗ After the initial thaw, aliquot Regenix into freezer-compatible tubes and store at -80°C. Minimize repeated freezing and thawing to maintain product quality.
- ⊗ Long-term storage after thawing is not recommended for optimal product integrity.
- ⊗ Frozen Regenix is stable for up to 2 years from the date of manufacture.

Thawing Instructions

- ⊗ Regenix begins to gel at temperatures above 10°C.
- ⊗ Thaw for at least 4 hours at 2°C to 8°C, ensuring the vial is fully surrounded by ice.
- ⊗ During thawing, keep the ice bucket covered and place it in a cold room or at the back of a refrigerator for consistent temperature control.

Surface Coating Instructions

- ⊗ Use a thin layer of Regenix for coating surfaces, with dilution based on product concentration. Poly-L-lysine (PLL) pre-coating can enhance the efficiency of the Regenix coating, allowing for the use of smaller amounts of Regenix.

Product	Product No.	Dilution factor (v: v)
Regenix Liver ECM, Low Conc.	RLI201-5X1ML	1/20-1/40
Regenix Liver ECM, Medium Conc.	RLI401-5X1ML	1/40-1/80
Regenix Liver ECM, High Conc.	RLI601-5X1ML	1/60-1/120
Regenix Heart ECM	RHE201-5X1ML	1/20-1/40
Regenix Intestine ECM	RIN201-5X1ML	1/20-1/40
Regenix Uterus ECM	RUT401-5X1ML	1/40-1/80
Regenix Pancreas ECM	RPA201-5X1ML	1/20-1/40
Regenix Kidney ECM	RKI701-5X1ML	1/70-1/140
Regenix Lung ECM	RLU701-5X1ML	1/70-1/140

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- ⌚ For dilution, we recommend using pre-chilled basal medium (without supplements) or PBS. Depending on the experimental purpose, appropriate screening of dilution ranges may be necessary.
- ⌚ Always keep Regenix on ice while coating to prevent premature gelation.
- ⌚ Incubate at 37°C for 2 hours to allow complete surface coating.
- ⌚ Aspirate any remaining Regenix solution and rinse with PBS or basal medium.

If you have any questions, please contact
+82-2-393-1214 | regenix@cellartgen.com