

# 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  
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