

Regenix[™] Lung

PROTOCOL

Regenix[™] Lung is composed of various basement membrane proteins separated from lung tissues. Regenix[™] Lung can be utilized for two-dimensional (2D) and three-dimensional (3D) culture of lung epithelial cells. In particular, Regenix[™] Lung can provide an optimized environment for adult stem cell (AdSC)-derived and pluripotent stem cell (PSC)-derived lung organoids.

PROCEDURE

3D culture of lung organoid using Regenix™ Lung



Thaw Regenix $^{\text{TM}}$ Lung for at least 4 hours by submerging the vial in an ice bucket and storing it in a 4°C refrigerator before use. Avoid multiple freeze/thaw cycles.



Cut the tip off a 200 μ L pipette tip with sterile scissors to obtain an opening diameter of 1.5-2 mm, and mix RegenixTM Lung by slowly pipetting; Be careful not to create air bubbles during this process.



Regenix $^{\text{TM}}$ Lung may have high viscosity, so there may be some difficulty in pipetting. If a lot of bubbles are generated after pipetting, centrifuge before use.



Add Regenix[™] Lung to the cell pellet and resuspend evenly by slow pipetting.



It is recommended to remove as much of the supernatant as possible before adding the Regenix $^{\text{TM}}$ Lung.



Dispense 30 μ L of the mixture to each well of a 48-well plate, and then incubate at 37 °C for 40 mins.



Add the appropriate volume of medium <u>very slowly.</u>



If you need to add 300 μL per well medium to each well, add the medium slowly and carefully over 15 seconds.



Culture of kidney organoids with Regenix TM Lung requires the addition of $10\mu M$ Y-27632 in the first 1-2 days.

[•] For additional product or technical information, visit www.cellartgen.com or contact regenix@cellartgen.com •



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PROCEDURE

Passage of Lung organoids in Regenix™ Lung



same way as before.

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