

Conditionally Immortalized Human Glomerular Podocytes

Catalog Number	ALHE54
Product Name	Conditionally Immortalized Human Glomerular Podocytes
Storage	Liquid Nitrogen Vapor Phase
Product Format	Frozen vial
Cells Number	0.5 Million

***Caution:** The handling of human derived products has the potential to be biologically hazardous. All Cell strains tested negative for HIV, HBV, and HCV DNA in diagnostic tests. Proper precautions must be taken to avoid exposure. Always wear proper protective equipment (Gloves, safety glasses, etc.) when handling these materials. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.

GENERAL INFORMATION

Human Primary Glomerular Podocytes were initially isolated and expanded from healthy kidney biopsy. Conditionally immortalized Human Glomerular Podocytes Cat.#ALHE54 are selected by puromycin after primary human podocytes are infected with the lentiviral particles expressing SV40 under the control of CMV promoter with the Ten-on system.

Podocyte Growth and Expansion Medium Cat.#ALGEM018 is recommended for cell culture and these cells have an average minimum population doubling levels > 50, when cultured following the detailed protocol described below.

Cat.#ALHE54 are negative for	HIV-1, HBV, HCV, and mycoplasma
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PRODUCT USE AND SHIPPING STATUS

Product Use	For research use only
Shipping Status	Frozen vial with dry ice

Frozen Vial:

- 1) Coating T25 flasks. Add 2 ml AlphaBioCoat (Cat.#AC001) into a T25 flask and ensure entire interior surface is coated with solution. After 30 minutes, dispose of AlphaBioCoat by aspiration. Gently rinse and aspirate flask with Phosphate Buffer Solution (Cat.#1XPBS-001). The flask is now ready for use (no need for overnight incubation when coated with Cat.#AC001).
- 2) If you are using the coated flask the same day, add about 4 ml of Podocyte Growth and Expansion media (Cat.#ALGEM018) to the coated flask. If the media changes color from pink to yellow, aspirate and discard the media. Add 4ml of fresh media to the coated flask.
- 3) Thaw the cells in a 37°C water bath. Once you see a small amount of ice left in the vial, spray the vial with 70% Ethanol and wipe it down.
- 4) Transfer the vial into your Biosafety cabinet.
- 5) Using a 2 or 5ml pipet, pipet the cells out of the vial.
- 6) Transfer your cell suspension in to your coated plate that have the 4 ml media in it.
- 7) You should have a total working volume of 5ml of cell suspension in the flask; close the cap. Make sure cells are evenly distributed in the flask by moving the flask left and right five times. Move it up and down for an additional five times.
- 8) Place flask in a 37°C incubator with 5% CO₂. If flask is not vented, please loosen cap.
- 9) Change media after 48 hours.
- 10) End of Protocol