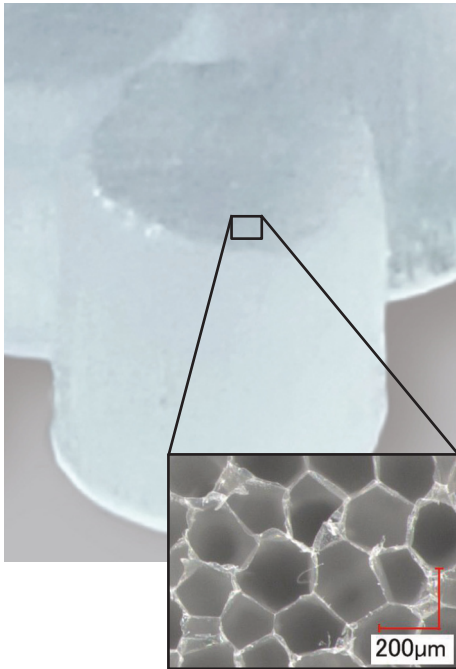


# 3D Honeycomb Boosted

By **KOKEN**



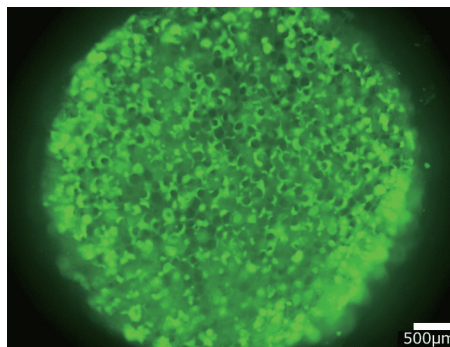
Koken's AteloCell® **3D Honeycomb Boosted** (KKN-3D-HCB) is designed as a scaffold for high density 3D cell culture/cell transplantation.

Made by processing atelocollagen into a sponge scaffold with honeycomb-like through-holes, **3D Honeycomb Boosted** is presented as small cylinders for use in a 96 well plate (diam. 5 mm × height 5 mm). In each cylinder it is possible to cultivate up to  $10^6$  cells — a number comparable to cell cultures grown in a 35 mm dish.

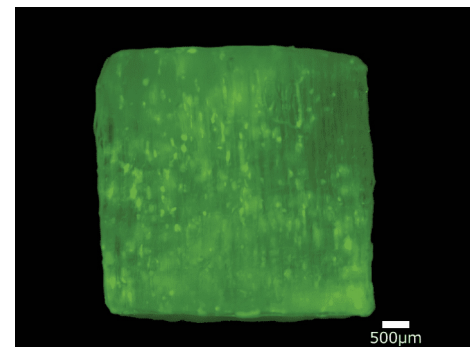
Boost a 96-well to a 35 mm dish!

## Features:

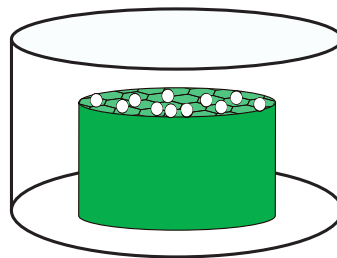
- High-density three-dimensional (3D) culture scaffold presented as a cylinder, diam. 5 mm × height 5 mm
- Honeycomb-like through-holes with pore size of 100 ~ 300 µm
- High density culture with growth up to  $10^6$  cells
- Sponge cylinder has high resilience to return to its original shape even after compression.



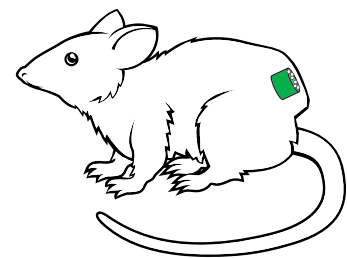
Top view after culturing GFP-expressing HepG2 cells for 7 days (Fluorescence microscopy image).



Sectional view after culturing GFP-expressing HepG2 cells for 7 days (Fluorescence microscopy image).



3D cell culture



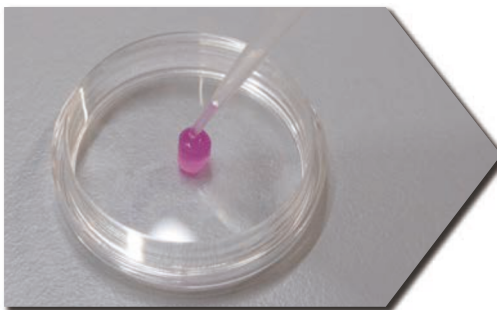
Cell transplantation

REPROCELL is an authorized distributor of Koken products outside of Japan.

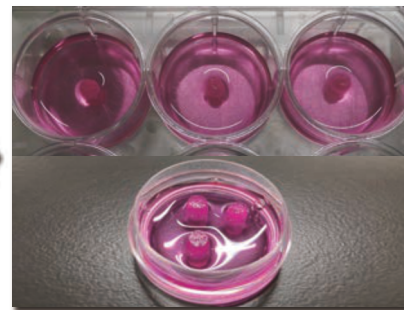
## 5 mm Tall 3D Cell Culture Available in 3 Steps



**1** Compress the sponge with flat-tipped tweezers to remove PBS and transfer to a plate or dish.

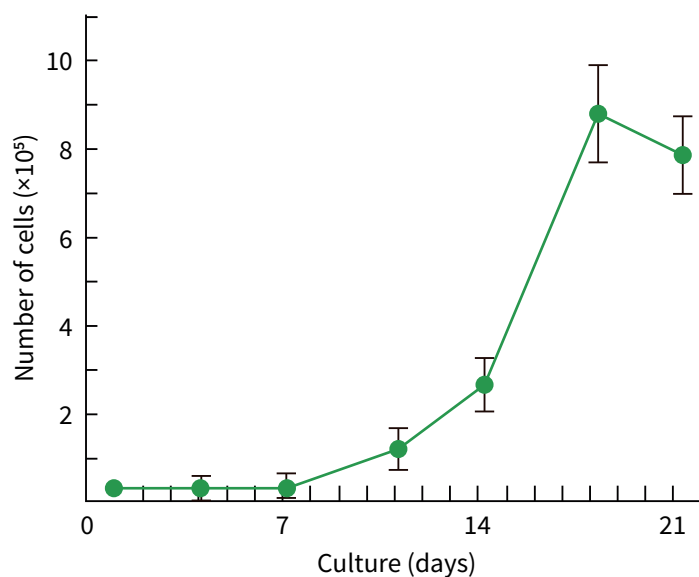
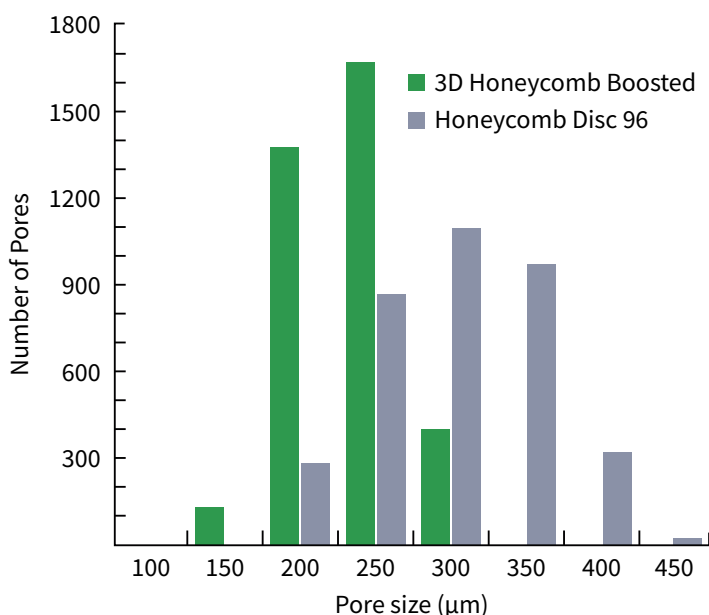


**2** Seed the cell suspension and incubate at 37°C for several hours.



**3** Complete by adding liquid medium after cell attachment. Multiple sponges can also be cultured in a 6 well or 35 mm dish.

## Higher Density 3D Culture from a Smaller, Denser Pore Structure



**3D Honeycomb Boosted** has pores concentrated around 200~250 µm, and a high-density 3D culture is enable. After seeding  $1 \times 10^4$  cells, it was possible to culture up to about  $10^6$  cells after 18 days. (Based on in-house data.)

## Product Specifications

Product	Product Code	Pack Size	Piece Size	Pore Size	Sterility Assurance	Storage
Atelocell 3D Honeycomb Boosted	KKN-3D-HCB	25 pieces	Diameter: 5 mm Height: 5 mm	100~300 µm	Available	4°C refrigeration