Atelocollagen Honeycomb sponge



Catalog No.: KOU-CSH-10
Size: 100MG
[BOTTLE]
Price: ¥43000
\$574

catalog info: Catalog 2012-p280

Storage: RT

Purpose: Useful tool for three dimensional culture and research of tissue engineering as 3D scaffold

Other:

Background

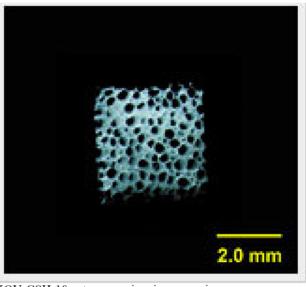
The 'Honeycomb' collagen sponge has a structure in which uniform pores (200-400 µm) are arranged densely in one direction, into which cells can penetrate and proliferate. This structure facilitates the ready supply of nutrients to thecells inside the sponge, and releases metabolic wastes and biochemical products. Cells can proliferate and fill the lumen to form a uniform cell mass. [Delivery Note]

The product contains bovine collagen. It was supplied from Australia/New Zealand and was certified about its non-hazardous by each quarantine. Please confirm the possibility of importing such bovine related item in your country before order.

IMAGE1 IMAGE2



Atelocollagen Honeycomb Sponge (KOU-CSH-10) is a 3 mm cube with applications including cell scaffolding for 3-D cell culture and high density cell culture substrate for tissue engineering.



KOU-CSH-10: stereoscopic microscope image

IMAGE 3

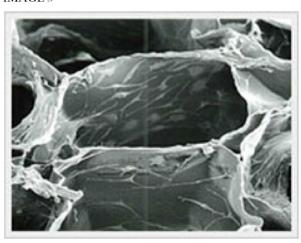
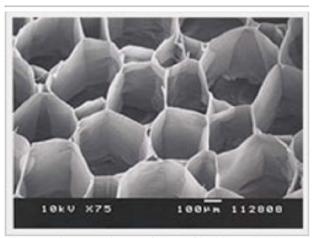
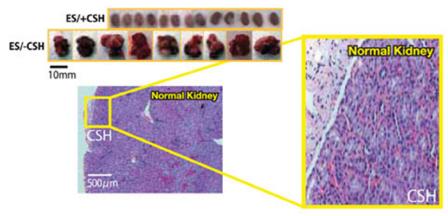


IMAGE4



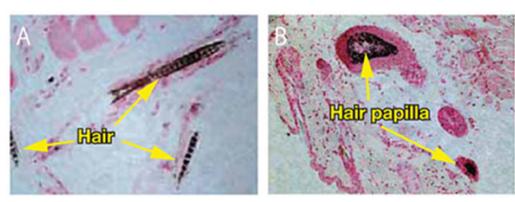
Electron microscope image of mouse fibroblast cell culture in Honeycomb collagen sponge



Pathological observation at 12 weeks after the transplantation confirmed that none of the EB adhered to KOU-CSH-10 (ES/+CSH) generated a teratoma, whereas the ES cell-derived EB transplanted without KOU-CSH-10 (ES/-CSH) generated a teratoma in all mice. ES/+CSH transplanted in the mouse kidney did not look different from the adjacent normal renal tissue in histopathological image and spontaneously differentiated into the tissue without a specific differentiation induction.

(courtesy of Dr. Mariko Yamaki, Matsumoto Dental University)

IMAGE6



Hairs (A) and hair papillas(B) were clearly observed in all mice.

(courtesy of Dr. Mariko Yamaki, Matsumoto Dental University)

Reference:

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