

# **PVA Microcarriers** for cell mass culture



### **Development Concept**

Microcarriers for regenerative medicine SCAPOVA<sup>™</sup> is Kuraray's PVA microcarriers. SCAPOVA<sup>™</sup> CL has collagen coated surface. SCAPOVA<sup>™</sup> CL can solve following issues in the manufacturing cells for regenerative medicine.

Obtain enough number of cells Assure medicalgrade safety

### **Characteristics of SCAPOVA<sup>™</sup> CL**



**Quality management** 

in accordance with

medical standards

SCAPOVA<sup>™</sup> CL are made from Kuraray's PVA<sup>\*\*</sup>.

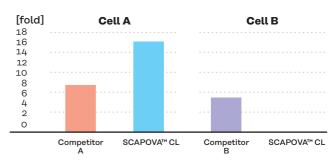
We conduct strict quality management.

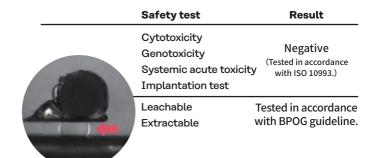
And there is no risk of contamination.

%Polyvinyl Alcohol

SCAPOVA<sup>™</sup> CL can be applied to cultivate therapeutic cells like MSCs.

Human cells cultured on each microcarriers for 7days. Each bar shows the fold of the initial cell number.

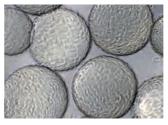




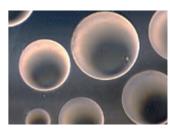
This image shows compression test of SCAPOVA<sup>™</sup>



It is easy to harvest and observe cells on SCAPOVA<sup>™</sup> CL. SCAPOVA<sup>™</sup> CL improve efficiency of mass cell production processes.

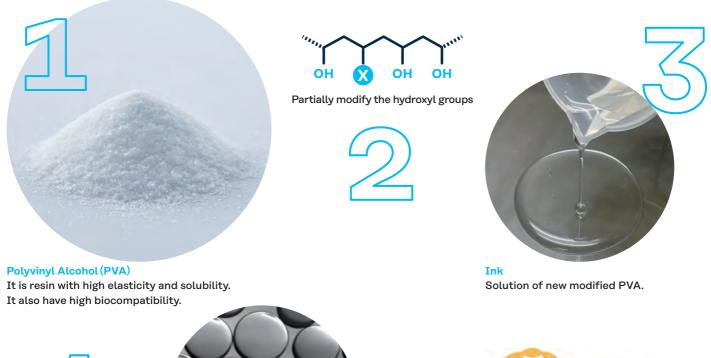


High transparency makes it easy to observe cells by microscopy



Cells are easily dettached from SCAPOVA™ CL

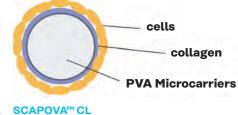
### Manufacturing Method of SCAPOVA<sup>™</sup> CL







PVA Microcarriers(non-coated) Micron-sized hydrogel beads are made by cross-linking PVA.



Collagen is coated on the surface of the microcarriers to allow cells to adhere.

#### Reference: PVA is used in...

- Polarizing film in LCD
- Water-soluble films for detergent



### **Product Information**

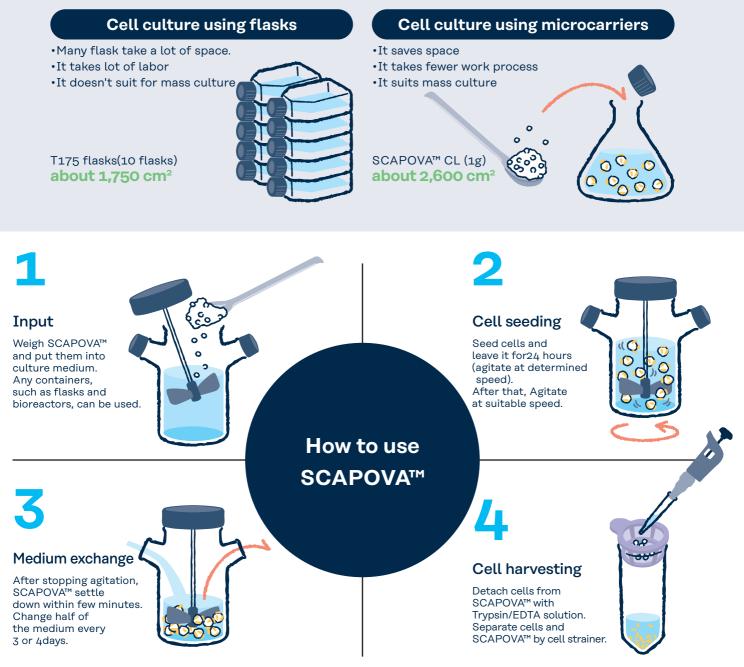
| Outline date<br>of<br>product | Particle size (D50)             | 200~250µm           |                      |
|-------------------------------|---------------------------------|---------------------|----------------------|
|                               | Coating of the surface          | Collagen            |                      |
|                               | Surface Area [/g dry weight]    | 2600cm <sup>2</sup> |                      |
|                               | Swelling Factor (in PBS)        | 10                  |                      |
|                               | Recommended amount [/ℓ for MSC] | 1.54g               |                      |
|                               | Sterilization                   | Gamma irradiation.  | CONTRACTOR OF STREET |
|                               |                                 |                     |                      |

%This product can be available only for research. Please contact us for clinical use.

|             | <b>Product name and quantity</b> | Price    | Product code    |
|-------------|----------------------------------|----------|-----------------|
| Price       | SCAPOVA <sup>™</sup> CL 1g       | \$35.00  | M11018SAC1-01GB |
| information | SCAPOVA™ CL 5g                   | \$175.00 | M11018SAC1-05GB |
|             | SCAPOVA <sup>™</sup> CL 10g      | \$335.00 | M11018SAC1-10GB |

## What is a microcarrier?

Microcarriers are micron-sized beads for cell culture scaffolds. cells attached to the beads surface and proliferate on the beads.



Culturing experience : hMSC, VERO cells, human fibroblasts, mouse fibroblasts We heve application notes with details on how to use the microcarriers.

#### Contact us -

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